

LBT-DR7AV/XB800AV

HCR-DR7AV/XB800AV

SERVICE MANUAL

AEP Model

UK Model

HCD-XB800AV

E Model

Australian Model

HCD-DR7AV

- LBT-DR7AV/XB800AV is composed following models.
As for the service manual, it is issued for each component model, then, please refer to it.

COMPONENT MODEL NAME FOR LBT-DR7AV/XB800AV.

	LBT-DR7AV	LBT-X800
COMPACT DISC DECK RECEIVER SYSTEM	HCD-DR7AV	HCD-XB800
FRONT SPEAKER SYSTEM	SS-DR7AV	SS-XB800AV
CENTER SPEAKER SYSTEM	SS-CN99	
REAR SPEAKER SYSTEM	SS-SR99	

HCR-DR7AV is composed of HCD-DR7AV, SS-CN99 and SS-SR99.
HCR-XB800AV is composed of HCD-XB800AV, SS-CN99 and SS-SR99.

•Abbreviation

EE : East European model
SP : Singapore model
EA : Saudi Arabia model
TH : Thai model

SPECIFICATIONS

General

Power requirements

European models: 230 V AC, 50/60 Hz
Australian models: 230 - 240 V AC, 50/60 Hz
Thai model: 220 V AC, 50/60 Hz
Other models: 120 V, 220 V or 230 - 240 V AC, 50/60 Hz.
Adjustable with voltage selector.

Power Consumption

LBT-DR7AV: 205 watts
LBT-XB800AV: 175 watts

Supplied accessories

AM loop antenna (1)
Remote RM-SR11AV (1)
R6 (size AA) batteries (2)
FM wire antenna (1)
Speaker cords (2)

Design and specifications are subject to change without notice.

PARTS LIST

Part No.	Description	Remark	Part No.	Description	Remark
ACCESSORIES & PACKING MATERIALS *****			3-865-551-81	MANUAL, INSTRUCTION (DUTCH, ITALIAN, PORTUGUESE, SWEDISH) (AEP)	
1-418-230-11	REMOTE COMMANDER (RM-SR11AV)		3-865-551-91	MANUAL, INSTRUCTION (POLISH, RUSSIAN) (EE, CIS)	
1-501-374-11	ANTENNA, LOOP		3-865-552-11	MANUAL, INSTRUCTION (CZECH) (EE, CIS)	
1-501-659-41	ANTENNA (FM) (DR7AV)		3-865-552-21	MANUAL, INSTRUCTION (HUNGARIAN) (EE, CIS)	
1-501-804-11	ANTENNA (FM) (XB800)		3-865-552-31	MANUAL, INSTRUCTION (TURKISH) (EE, CIS)	
1-751-347-11	CORD, SPEAKER (10m) (SS-SR99)		3-865-552-41	MANUAL, INSTRUCTION (GREEK) (EE, CIS)	
1-769-433-21	CORD, SPEAKER (2.5m) (FRONT/SS-CN99)		3-865-553-21	MANUAL, INSTRUCTION (ENGLISH, THAI) (TH)	
3-865-551-11	MANUAL, INSTRUCTION (ENGLISH)		4-210-254-01	CUSHION (FOOT) (SS-DR7AV/CN99)	
3-865-551-21	MANUAL, INSTRUCTION (FRENCH) (AEP)		4-972-332-01	FOOT (Y) (SS-XB800AV)	
3-865-551-41	MANUAL, INSTRUCTION (FRENCH, SPANISH) (AEP, SP)		4-988-173-01	COVER, BATTERY (FOR RM-SR11AV)	
3-865-551-51	MANUAL, INSTRUCTION (CHINESE) (SP)				
3-865-551-61	MANUAL, INSTRUCTION (ARABIC) (EA)				
3-865-551-71	MANUAL, INSTRUCTION (GERMAN) (AEP)				

COMPACT Hi-Fi STEREO SYSTEM

SONY®



HCD-DR7AV/XB800AV

SERVICE MANUAL

AEP Model

UK Model

HCD-XB800AV

E Model

Australian Model

HCD-DR7AV



Photo: HCD-DR7AV

HCD-DR7AV/XB800AV is the tuner, deck, CD and amplifier section in LBT-DR7AV/XB800AV.

This stereo system is equipped with the Dolby* B-type noise reduction system.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol  and "PRO LOGIC" are trademarks of the Dolby Laboratories Licensing Corporation.

CD SECTION	Model Name Using Similar Mechanism	HCD-DR4/DR5/DR6/DR440/W300/W5000/XB500
	CD Mechanism Type	CDM37M-5BD32L
	Base Unit Type	BU-5BD32L
	Optical Pick-up Type	KSS-213D/Q-N
TAPE DECK SECTION	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	TCM-230AWR2/230PWR2

SPECIFICATIONS

Amplifier section

HCD-XB800AV

Front Speaker:

DIN power output (Rated)

90 + 90 watts
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

120 + 120 watts
(8 ohms at 1 kHz, 10% THD)

Music power output (Reference)

200 + 200 watts
(8 ohms at 1 kHz, 10% THD)

Center Speaker:

DIN power output (Rated)

30 watts
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

40 watts
(8 ohms at 1 kHz, 10% THD)

Music power output (Reference)

60 watts
(8 ohms at 1 kHz, 10% THD)

Rear Speaker:

DIN power output (Rated)

15 + 15 watts
(16 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

20 + 20 watts
(16 ohms at 1 kHz, 10% THD)

Music power output (Reference)

30 + 30 watts
(16 ohms at 1 kHz, 10% THD)

HCD-DR7AV

Front Speaker:

The following measured at AC 120/220/240 V, 50 Hz

DIN power output (Rated)

110 + 110 watts
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

140 + 140 watts
(6 ohms at 1 kHz, 10% THD)

Center Speaker:

DIN power output (Rated)

30 watts
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

40 watts
(8 ohms at 1 kHz, 10% THD)

Rear Speaker:

DIN power output (Rated)

15 + 15 watts
(16 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

20 + 20 watts
(16 ohms at 1 kHz, 10% THD)

Inputs

PHONO IN (phono jacks): sensitivity 3 mV, impedance 47 kilohms

MIX MIC (phone jack): sensitivity 1 mV, impedance 10 kilohms

VIDEO1 IN (phono jacks): sensitivity 250 mV, impedance 47 kilohms

VIDEO2 IN (phono jacks): sensitivity 250 mV, impedance 47 kilohms

MD IN (phono jacks): sensitivity 450 mV, impedance 47 kilohms

Outputs

PHONES (stereo phone jack): accepts headphones of 8 ohms or more

VIDEO OUT (phono jack): voltage 250 mV, impedance 1 kilohm

MD OUT (phono jacks): voltage 250 mV, impedance 1 kilohm

FRONT SPEAKER: (HCD-XB800AV) accepts impedance of 8 to 16 ohms

(HCD-DR7AV) accepts impedance of 6 to 16 ohms

CENTER SPEAKER: accepts impedance of 8 to 16 ohms

REAR SPEAKER: impedance 16 ohms

— Continued on next page —

COMPACT DISC DECK RECEIVER



SONY®

Video section

Inputs
VIDEO1 IN (phono jacks): 1 V p-p, 75 ohms
VIDEO2 IN (phono jacks): 1 V p-p, 75 ohms

Output
VIDEO OUT (phono jack): 1 V p-p, 75 ohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$) Emission duration: continuous
Laser output	Max. $44.6 \mu\text{W}^*$ * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Wavelength	780 – 790 nm
Frequency response	2 Hz – 20 kHz ($\pm 0.5 \text{ dB}$)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB
CD DIGITAL OUT (square optical connector jack, rear panel)	
Wave length:	660 nm
Output level:	-18 dBm

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	40 – 13,000 Hz ($\pm 3 \text{ dB}$), using a Sony TYPE I cassette
	40 – 14,000 Hz ($\pm 3 \text{ dB}$), using a Sony TYPE II cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range (2 band model)	
North American model:	87.5 – 108.0 MHz (100 kHz step)
Other models:	87.5 – 108.0 MHz (50 kHz step)
(3 band model)	
FM:	87.5 – 108.0 MHz (50 kHz step)
UKV:	65.0 – 74.0 MHz (10 kHz step) STEREO PLUS
Antenna	FM wire antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
European model:	531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Middle Eastern model:	531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Other models:	531 – 1,602 kHz (with the tuning interval set at 9 kHz) 530 – 1,710 kHz (with the tuning interval set at 10 kHz)
Antenna	AM loop antenna, External antenna terminals
Intermediate frequency	450 kHz

General

Power requirements	
European model:	230 V AC, 50/60 Hz
Australian model:	230 – 240 V AC, 50/60 Hz
Other models:	120 V, 220 V, or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector

Power consumption (HCD-DR7AV)	205 watts
(HCD-XB800AV)	175 watts

Dimensions (w/h/d)	Approx. $356 \times 423 \times 446 \text{ mm}$ ($14\frac{1}{8} \times 16\frac{3}{4} \times 17\frac{5}{8} \text{ in}$) incl. projecting parts and controls
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Mass (HCD-DR7AV)	Approx. 14.5 kg (32 lb)
(HCD-XB800AV)	Approx. 14.0 kg (30 lb 14 oz.)

Design and specifications are subject to change without notice.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

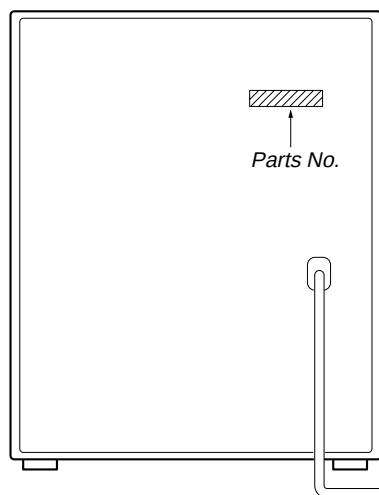
Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHERHEITSSVERRIGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALT-TIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLIG LASERSTRÅLING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRÄKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYAZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

This caution label is located inside the unit.

MODEL IDENTIFICATION**— BACK PANEL —**

PARTS No.	MODEL	PRODUCT COUNTRY
4-214-788-0□	DR7AV: SP	INDONESIA
4-214-788-1□	DR7AV: EA	INDONESIA
4-214-788-2□	DR7AV: AUS	INDONESIA
4-214-788-6□	DR7AV: TH	THAILAND
4-214-785-3□	XB800AV: AEP, UK, EE, CIS	INDONESIA
4-214-785-4□	XB800AV: AEP	THAILAND

- Abbreviation
SP : Singapore model
EA : Saudi Arabia model
AUS : Australian model
TH : Thailand model
EE : East European model

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the “S curve check” in “CD section adjustment” and check that the S curve waveform is output four times.

SECTION 1 SERVICING NOTE

About CD-TEXT display

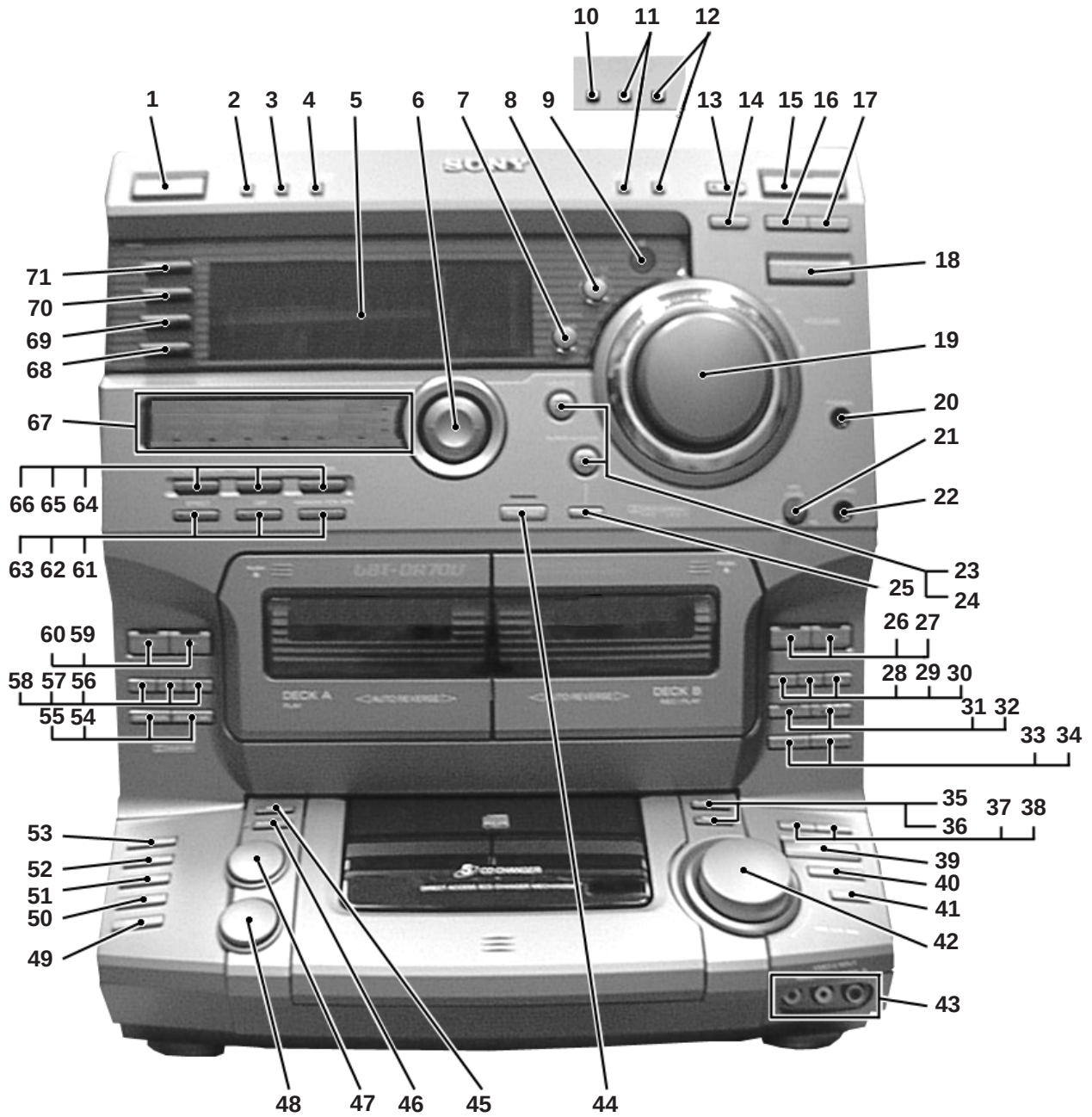
This unit is provided with a simple CD-TEXT display function. The CD-TEXT contents of 20 tracks are displayed on the fluorescent display tube.
Since the function is simple, some special characters may not be displayed, or may be displayed as other characters.

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SECTION 2 GENERAL

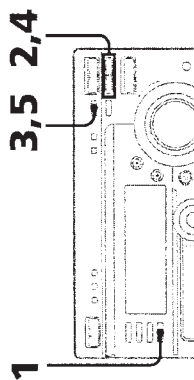
Front Panel



Step 3: Setting the time

You must set the time before using the timer functions. The clock is on a 24-hour system for the European and Brazilian models, and a 12-hour system for other models.

The 24-hour system model is used for illustration purposes.



1 Press ⌚/CLOCK SET.

The hour indication flashes.



2 Press TUNING +/- to set the hour.



3 Press ENTER/NEXT.

The minutes indication flashes.



4 Press TUNING +/- to set the minutes.



5 Press ENTER/NEXT.

The clock starts.

Tip

If you make a mistake, start over from step 1.

Notes

- You cannot set the time in Power Saving mode (see page 11).
- The clock setting is canceled when you disconnect the power cord or if a power failure occurs.

LOCATION OF PARTS AND CONTROLS

- | | | |
|--|--------------------------------------|--------------------------------|
| 1 I/⏻ (Power) button and indicator | 24 SUPER WOOFER button and indicator | 49 DISC 5 button |
| 2 DEMO (STANDBY) button (DR7AV) | 25 MODE button | 50 DISC 4 button |
| POWER SAVE/DEMO (STANDBY) button (XB800AV) | 26 ◁ (B Deck) button and indicator | 51 DISC 3 button |
| 3 DISPLAY button | 27 ▷ (B Deck) button and indicator | 52 DISC 2 button |
| 4 SPECTRUM ANALYZER button | 28 ■ (B Deck) button | 53 DISC 1 button |
| 5 Display window | 29 ◀◀ (B Deck) button | 54 DOLBY NR button |
| 6 GEQ control button | 30 ▶▶ (B Deck) button | 55 DIRECTION button |
| 7 SYNC BASS button | 31 (B Deck) button | 56 ▶▶ (A Deck) button |
| 8 SYNC EQ button | 32 ● REC (B Deck) button | 57 ◀◀ (A Deck) button |
| 9 Remote sensor | 33 HI-SPEED DUB button | 58 ■ (A Deck) button |
| 10 PTY button (XB800AV) | 34 CD SYNCHRO button | 59 ▷ (A Deck) button |
| 11 TUNING MODE button | 35 PLAY MODE button | 60 ◁ (A Deck) button |
| 12 STEREO/MONO button | 36 REPEAT button | 61 KARAOKE PON/MPX button |
| 13 ENTER/NEXT button and indicator | 37 ◀◀ (CD) button | 62 DSP button and indicator |
| 14 TUNER MEMORY button | 38 ▶▶ (CD) button | 63 EFFECT button and indicator |
| 15 TUNER/BAND button | 39 ▷ (CD) button and indicator | 64 ENTER button and indicator |
| 16 TUNING - button | 40 ■ (CD) button | 65 GEQ CONTROL button |
| 17 TUNING + button | 41 DISK SKIP button | 66 P. FILE MEMORY |
| 18 FUNCTION button | 42 ◀◀ AMS ▶▶ knob | 67 Equalizer indicators |
| 19 VOLUME knob | 43 VIDEO2 INPUT jacks | 68 ⌚/CLOCK SET button |
| 20 PHONES jack | 44 PRO LOGIC button and indicator | 69 SLEEP button |
| 21 MIC LEVEL knob | 45 EDIT button | 70 REC button and indicator |
| 22 MIX MIC jack | 46 NON-STOP button and indicator | 71 DAILY button and indicator |
| 23 GROOVE button and indicator | 47 LOOP button | |
| | 48 FLASH button | |

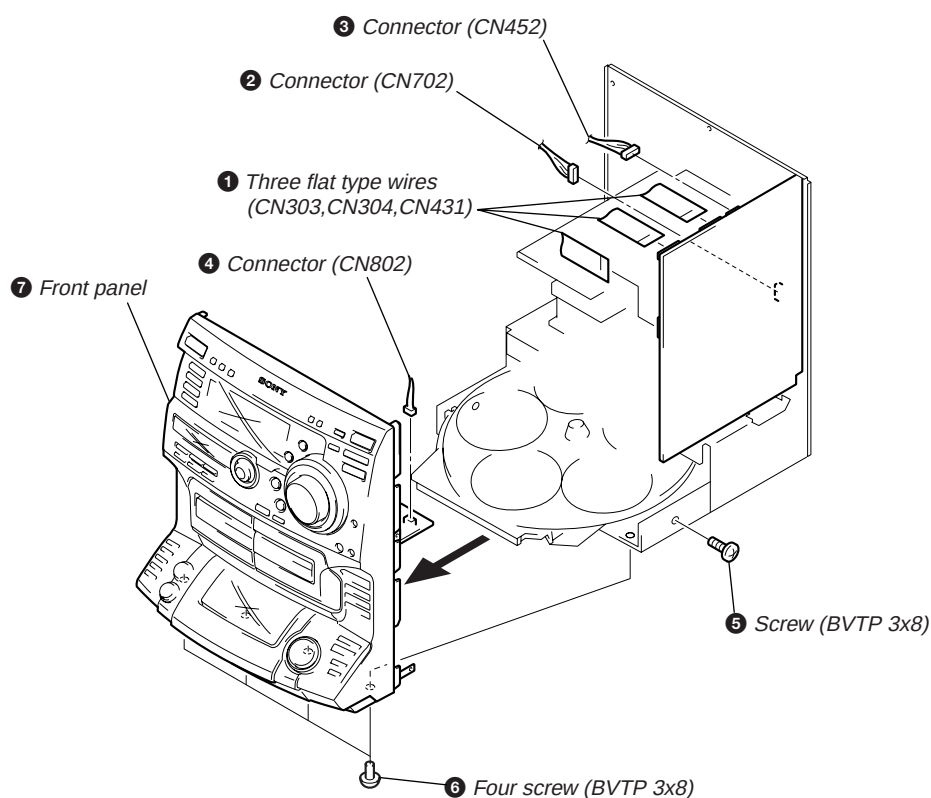
- AMS is the abbreviation for Automatic Music Sensor.

This section is extracted from instruction manual.

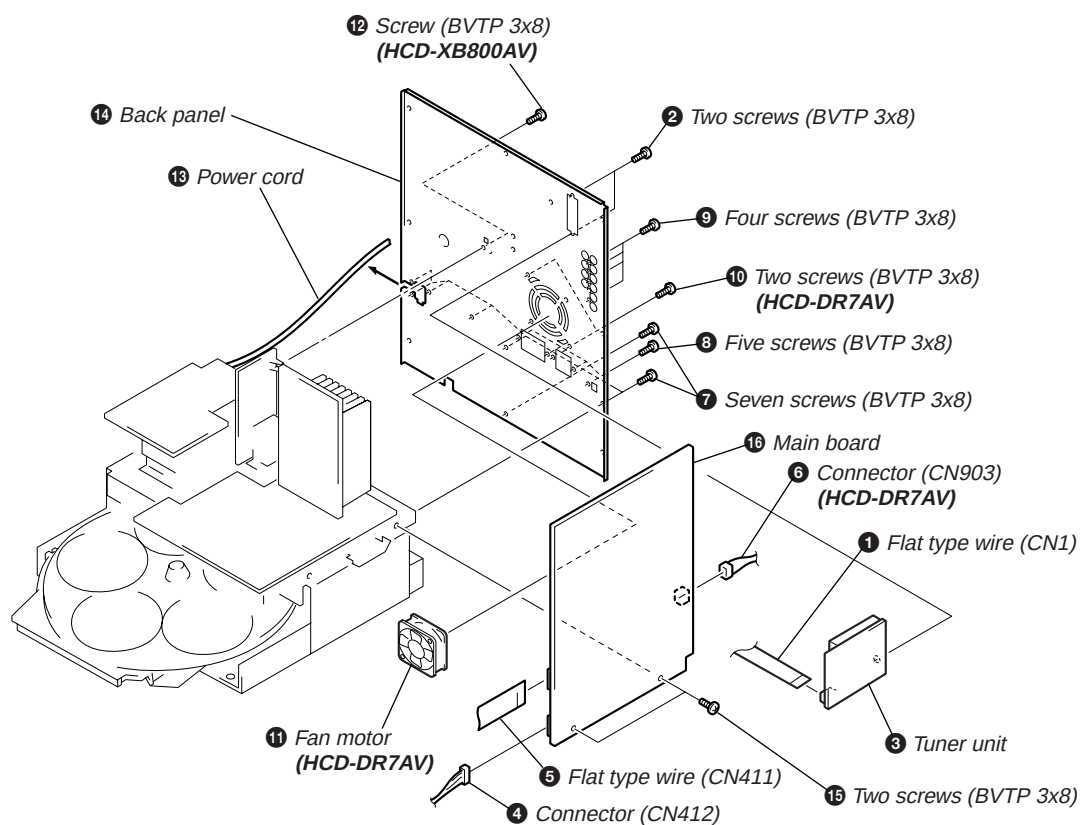
SECTION 3 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

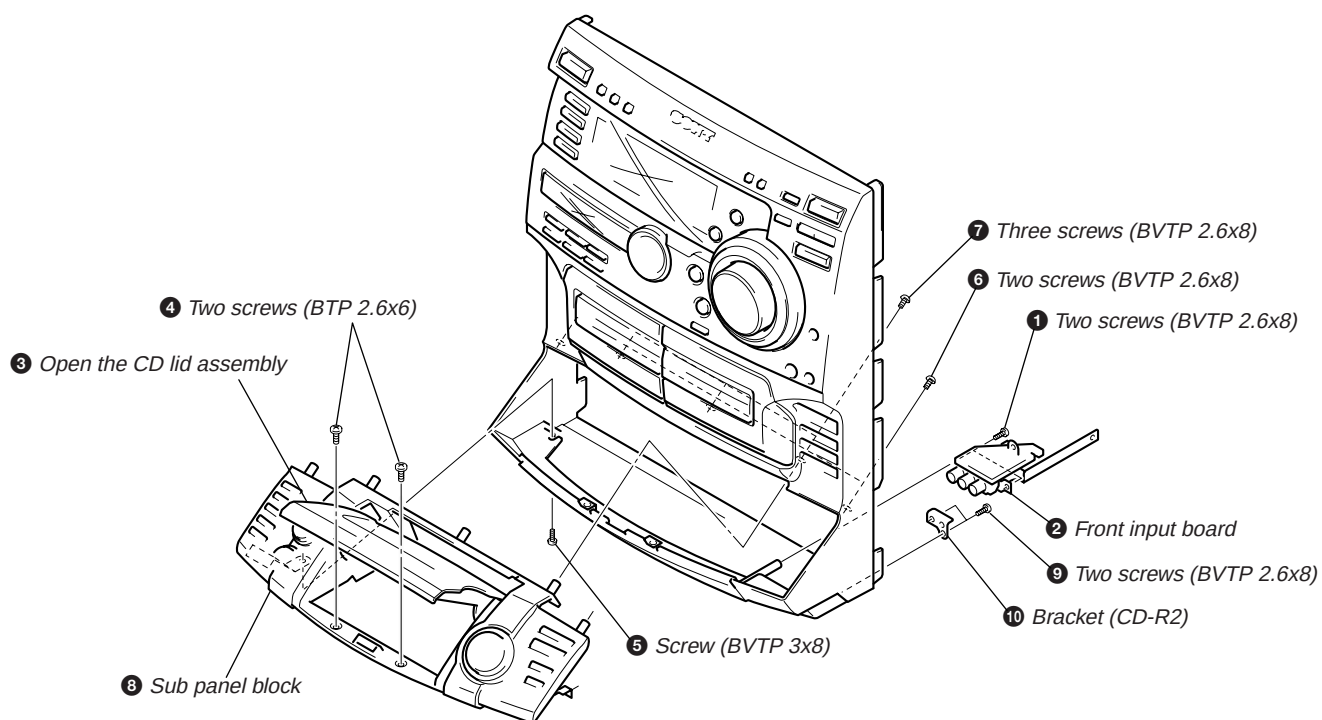
3-1. FRONT PANEL



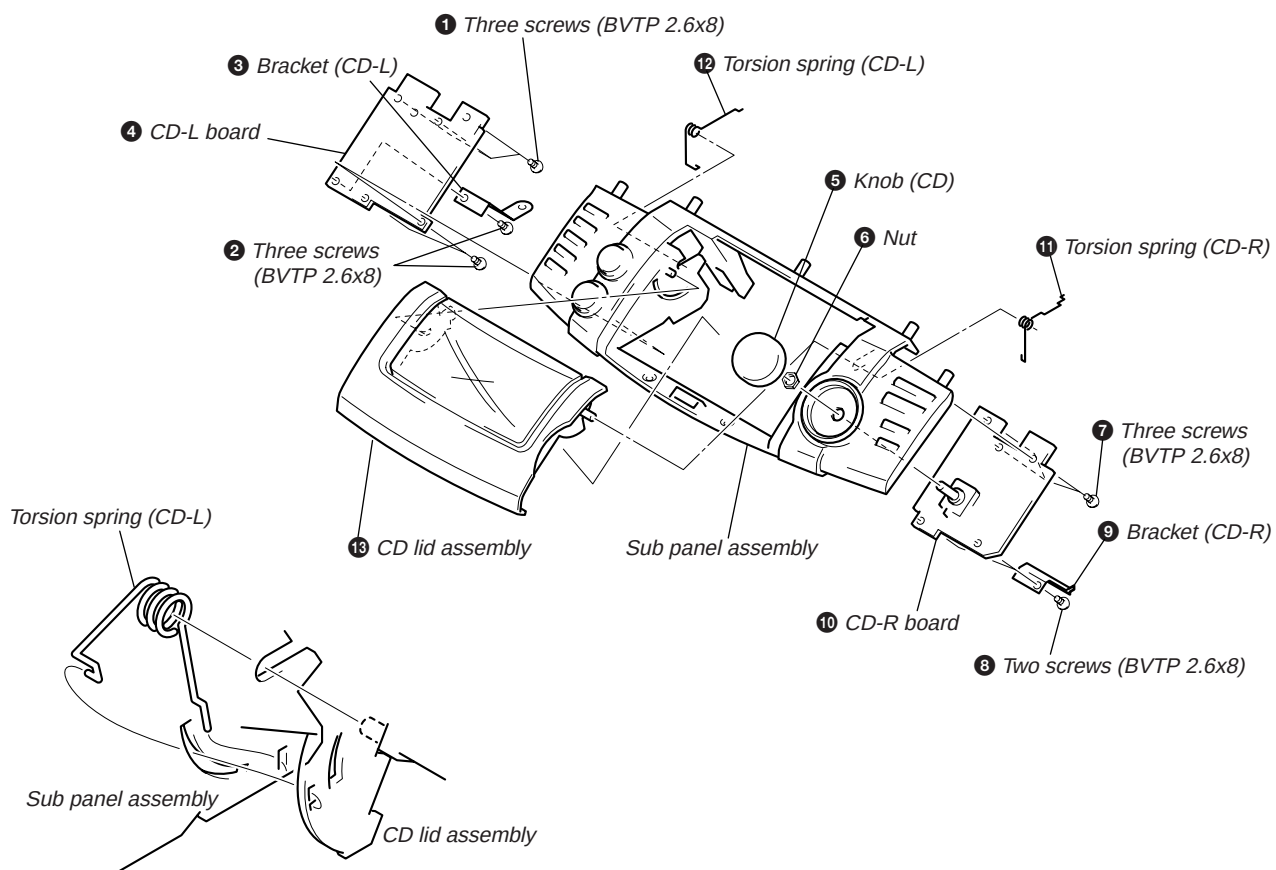
3-2. MAIN BOARD



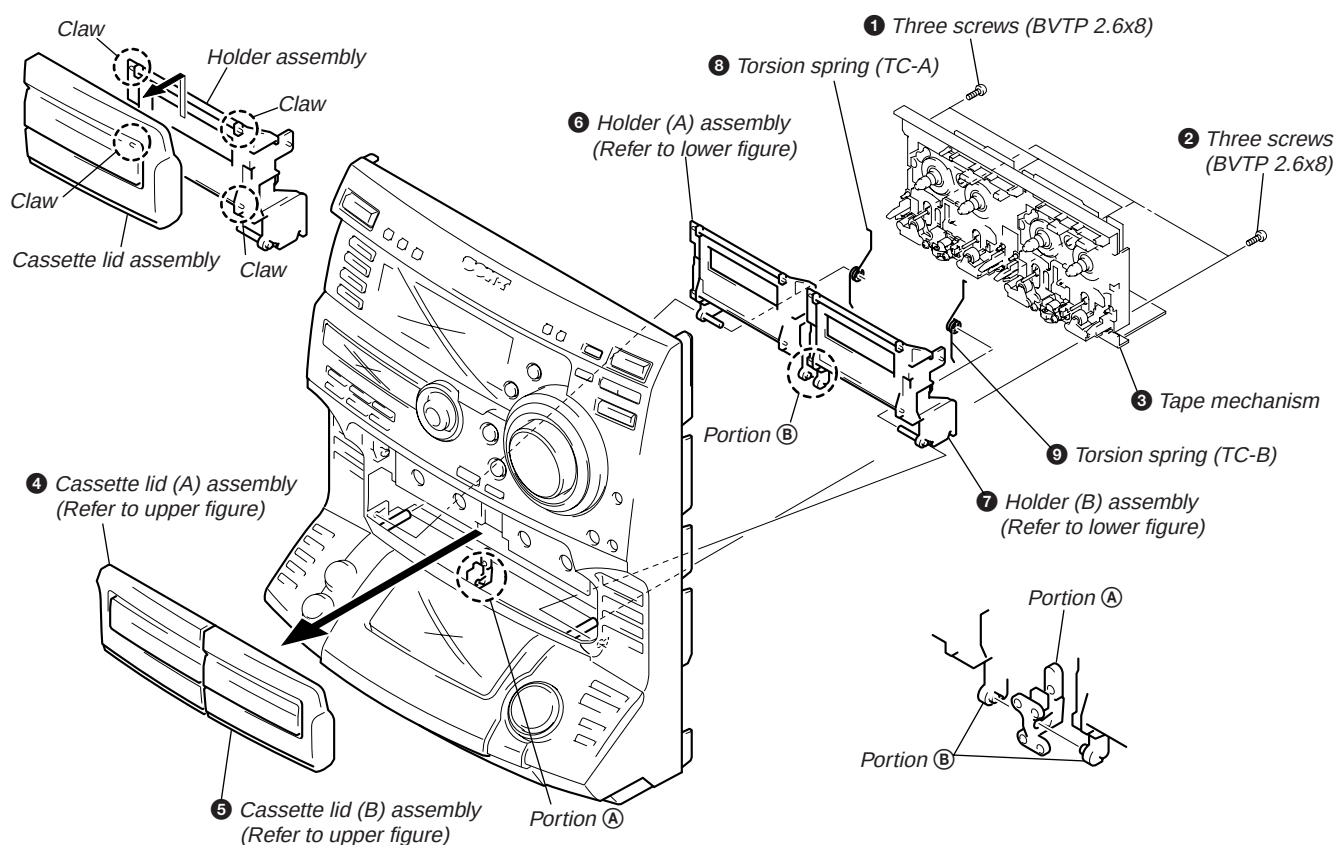
3-3. SUB PANEL



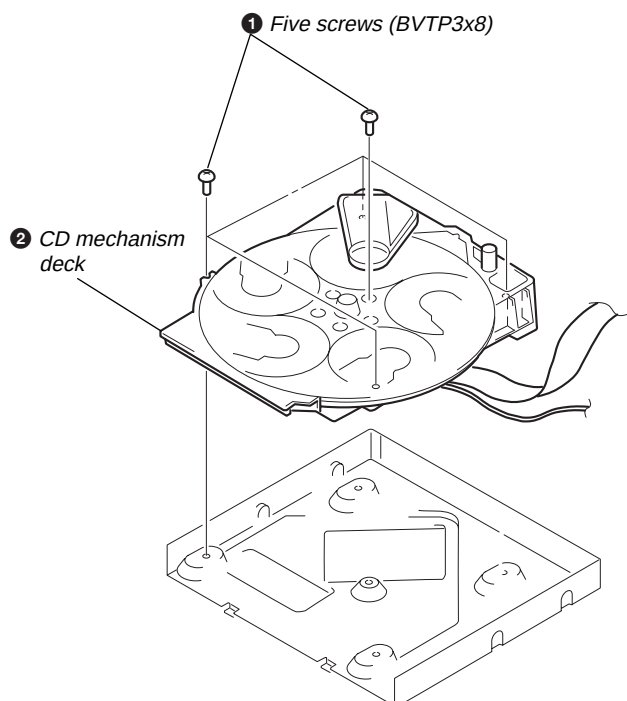
3-4. CD-L/CD-R BOARD AND CD LID ASSEMBLY



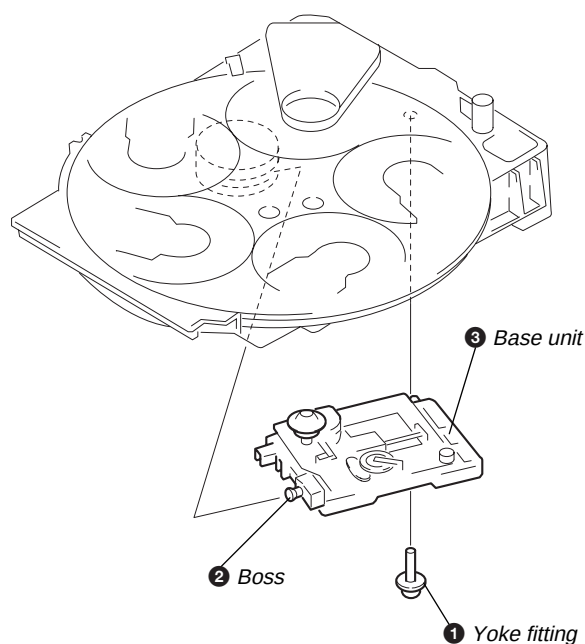
3-5. TAPE MECHANISM DECK AND CASSETTE LID



3-6. CD MECHANISM DECK



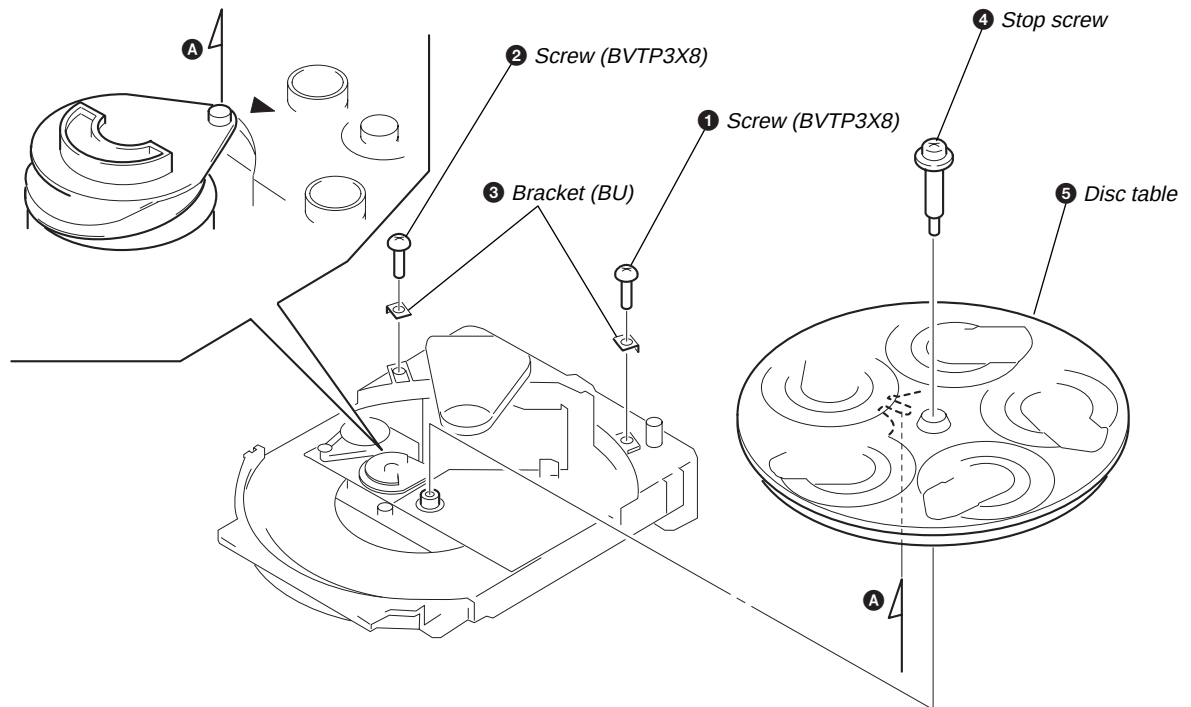
3-7. BASE UNIT



3-8. DISC TABLE

Note:

When the disc table is installed, adjust the positions of roller cam and mark ► as shown in the figure, then set to the groove of disc table.



SECTION 4

SERVICE MODE

MC Cold Reset

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons **[⏻/CLOCK SET]**, **[ENTER]**, and **[I/⏻]** simultaneously.
2. "COLD RESET" is displayed on the fluorescent display tube and reset is executed.

CD Delivery Mode

- This mode moves the pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press **[I/⏻]** button to turn the set ON.
2. Press **[LOOP]** button and **[I/⏻]** button simultaneously.
3. A message "LOCK" is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

MC Hot Reset

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Press three buttons **[⏻/CLOCK SET]**, **[ENTER]**, and **[DISC 1]** simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

Sled Servo Mode

- This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pick-up.

Procedure:

1. Press **[I/⏻]** button to turn the set ON.
2. Press three buttons **[⏻/CLOCK SET]**, **[ENTER]**, and **[DISC 5]** simultaneously.
3. The Sled Servo mode is selected, if "CD" is blanking on the fluorescent indicator tube.
4. With the CD in stop status, When the **[◀◀ AMS ▶▶]** knob is rotated in the clockwise direction, the pick-up moves outside. When rotated counterclockwise, it moves inside.
5. To exit from this mode, perform as follows:
 - 1) Move the pick-up to the most inside track.
 - 2) Execute MC cold reset. (Press the three buttons **[⏻/CLOCK SET]**, **[ENTER]**, and **[I/⏻]** button simultaneously.)

Note:

- Always move the pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

Change-over of AM Tuner Step between 9kHz and 10kHz (DR7AV Only)

- A step of AM channels can be changed over between 9kHz and 10kHz.

Procedure:

1. Press **[I/⏻]** button to turn the set ON.
2. Select the function "TUNER", and press **[TUNER/BAND]** button to select the BAND "AM".
3. Press **[I/⏻]** button to turn the set OFF.
4. Press **[ENTER]** and **[I/⏻]** buttons simultaneously, and the display of fluorescent indicator tube changes to "AM 9k STEP" or "AM 10k STEP", and thus the channel step is changed over.

LED and Fluorescent Indicator Tube All Lit, Key Check Mode

Procedure:

1. Press three buttons **[⏻/CLOCK SET]**, **[ENTER]**, and **[DISC 2]** simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.
Press **[DISC 2]** button, and the key check mode is activated.
3. In the key check mode, the fluorescent indicator tube displays "K @ V0 J0". Each time a button is pressed, "K" value increases. However, once a button is pressed, it is no longer taken into account.
"J" Value increases like 1, 2, 3 ... if rotating **[◀◀ AMS ▶▶]** knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
"V" Value increases like 1, 2, 3 ... if rotating **[VOLUME]** knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
4. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

AMS Test Mode

- This mode is used for checking the AMS operations of the tape deck.

JIG

7-819-039-12 Alignment tape, AMS-110A

Procedure:

1. Press the  button to turn the set ON.
2. Set the tape (AMS-110A).
3. Press the three buttons , , and  button simultaneously.
4. "TEST MODE" is displayed on the fluorescent display tube.
5. Press the  button and switch the function to the deck with the tape (AMS-110A).
6. Press the  button. "AMS CHECK" is displayed on the fluorescent display tube and the tape is rewound.
7. AMS starts in the normal direction. If the AMS count is 2 at shut down, proceed to step 8.
"NG" is displayed at other times, and the deck stops.
8. AMS starts in the opposite direction. If the AMS count is 2 at shut down again, "OK" is displayed.
"NG" is displayed at other times.

Aging Mode

During the aging mode, both the CD player and tape deck are executed together.

• If an error occurs:

Aging stops, and the error state is displayed on the fluorescent display tube.

• If no error occurs:

Aging is repeated.

Procedure:

1. Press the  button to turn the set ON.
2. Load 10 minute tapes with unbent rec-proof tabs in decks A and B.
3. Set CDs on the DISC 1 and DISC 4 tables.
4. Set the CD mode REPEAT to OFF and PLAY MODE to ALL DISCS.
(Press the  and  buttons to set these modes.)
5. Press the  button to switch the function to "CD".
6. Press the three buttons , , and  button simultaneously.
7. Aging starts.
8. To end aging, press the  button to turn the set OFF.

Aging Sequence:

Aging is performed in the following sequence.

• Tape Deck

1. The tape in deck A is rewound. "TAPE A AG-1" is displayed.
2. The FWD side of deck A is played for two minutes.
"TAPE A AG-2" is displayed.
3. The tape in deck A is fast forwarded. "TAPE A AG-3" is displayed. Fast forward is carried out for 20 seconds or to the tape end.
4. The RVS side of deck A is played for two minutes.
"TAPE A AG-4" is displayed.
5. The tape in deck A is rewound. "TAPE A AG-5" is displayed.
6. The FWD side of deck B is played for two minutes.
"TAPE B AG-2" is displayed.
7. The tape in deck B is fast forwarded. "TAPE B AG-3" is displayed. Fast forward is carried out for 20 seconds or to the tape end.
8. The RVS side of deck B is played for two minutes.
"TAPE B AG-4" is displayed.
9. The tape in deck A is rewound. "TAPE A AG-5" is displayed.
10. Repeated from step 2.

• CD

1. The tray rotates.
2. DISC 1 is chucked.
3. The TOC is read.
4. The first track is played for 2 seconds.
5. The last track is played for 2 seconds.
6. The tray rotates.
7. DISC 4 is chucked.
8. The TOC is read.
9. The first track is played for 2 seconds.
10. The last track is played for 2 seconds.
11. Repeated from step 1.

- Display when ended abnormally

When the tape deck is abnormal:

The state when ended abnormally is displayed.

The contents of display are the same as that during aging.

When the CD player is abnormal:

A message indicating that errors such as “CD MEC ERR” have occurred.

Check the error contents in the following error history display mode.

Error History Display Mode

Mode which enables the history of error occurring in the CD player to be checked.

Execute this mode after ending the aging mode.

Procedure:

1. Press the **I/⏻** button to turn the set ON.
2. Press the three buttons **⏻/CLOCK SET**, **ENTER**, and **CD SYNCHRO** simultaneously.
3. A message such as “EMC@@@EDC**” is displayed.
 @@ : Number of mechanical errors (Up to three past errors)
 ** : Number of errors (NO DISC ERROR) which occurs after chucking (Up to three past errors)
4. When checking the history of mechanical errors, press the **PLAY MODE** button. When checking errors after chucking, press the **REPEAT** button to switch the display.
5. Press the **I/⏻** button to end and turn the set OFF.
6. To erase the error history, perform COLD reset.
 (Press the three buttons **⏻/CLOCK SET**, **ENTER**, and **DISC 1** simultaneously.)

- Viewing the mechanical error history display
 (Switch the history by pressing the **PLAY MODE** button.)

Display

E@@@M#*****

@@ : Error number. 00 is the newest.

- # : Operating state of table
- 0 : Currently in the INITIAL mode
 7 : Currently rotating to the right
 8 : Currently rotating to the left
 A : Currently chucking down
 B : Currently chucking up
- * : Invalid

- Viewing the NO DISC ERROR history display
 (Switch the history by pressing the **REPEAT** button.)

Display

E@@@D##\$\$%*%

@@ : Error number. 00 is the newest

- ## : Error contents
 01: Focus error
 02: GFS error
 03: Setup error
- \$\$: Retries
 00: NO DISC is determined without attempting chucking
 retry 02: NO DISC is determined after chucking retry.
- % : State when determined as NO DISC
 1 : When stopped
 2 : At setup
 3 : At TOC READ
 4 : When accessing
 5 : When playing
 6 : When pausing
 7 : When manual searching (during play)
 8 : When manual searching (during pausing)
 * : Invalid

SECTION 5 MECHANICAL ADJUSTMENTS

Precaution

- Clean the following parts with a denatured alcohol-moistened swab:

record/playback heads	pinch rollers
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	2 to 6 g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	2 to 6 g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	71 to 143 g • cm (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	100 g or more (3.53 oz or more)
REV tension	CQ-403R	100 g or more (3.53 oz or more)

SECTION 6 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB=0.775V

- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
- The adjustments should be performed for both L-CH and R-CH.
- Switches and controls should be set as follows unless otherwise specified.

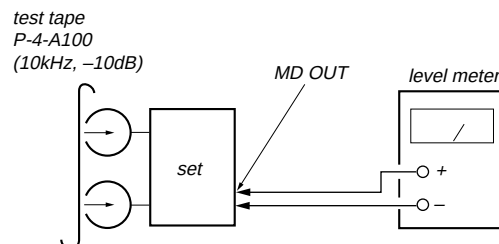
Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

Record/Playback Head Azimuth Adjustment (Deck A, Deck B)

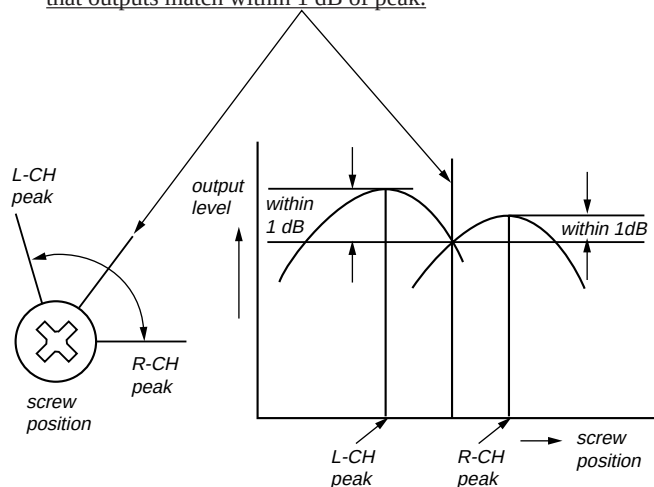
Note: Perform this adjustments for both decks.

Procedure:

- Mode : Playback

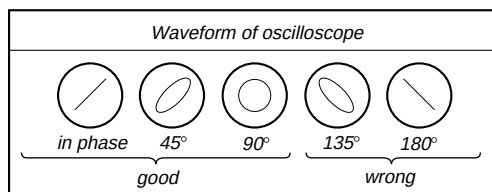
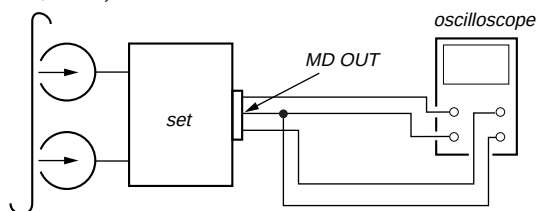


- Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



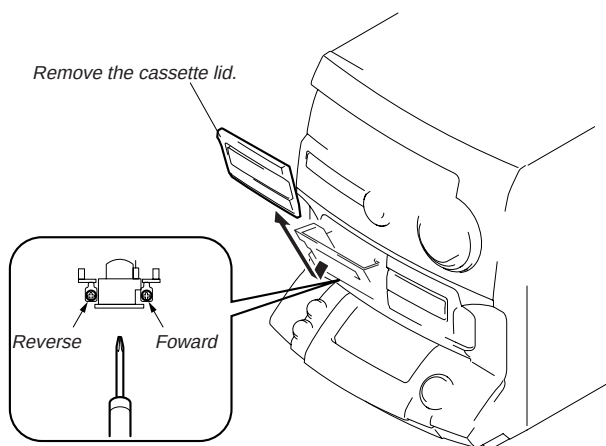
3. Mode: Playback

test tape
P-4-A100
(10kHz, -10dB)



- After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Playback Head (Deck A)
Record/Playback/Erase Head (Deck B)



Tape Speed Adjustment (Deck A)

Note: Set the test mode using the following method and begin tape speed adjustment.

In the test mode, the speed will switch to double speed or normal speed each time the **[HI-SPEED DUB]** button is pressed.

Procedure:

With the power turned ON, press the **[⏸/CLOCK SET]** button, **[ENTER]** button, and **[DISC 3]** button simultaneously.

(The "VOLUME" on the fluorescent display tube will blink while in the test mode.)

To exit the test mode, press the **[I/⏸]** button.

- Insert the WS-48B into deck B.
- Press the **[▶]** button of deck B.
- Press the **[HI-SPEED DUB]** button and play the tape at double speed.
- Adjust RV1001 of the LEAF SW board so that the reading of the frequency counter becomes 6000 ± 180 Hz.
- Press the **[HI-SPEED DUB]** button and play the tape at normal speed.
- Adjust RV1002 of the LEAF SW board so that the reading of the frequency counter becomes 3000 ± 90 Hz.

Adjustment Location: LEAF SW board

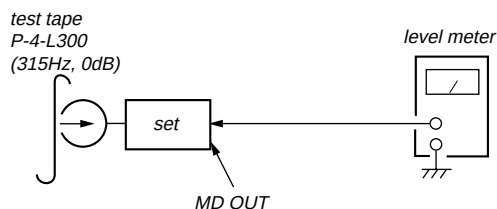
Sample Value of Wow and flutter

W.RMS (JIS) less than 0.3%
(test tape: WS-48B)

Playback Level Adjustment (Deck A, Deck B)

Procedure:

Mode: Playback



Deck A is RV311 (L-CH) and RV411 (R-CH), deck B is RV301 (L-CH) and RV401 (R-CH)

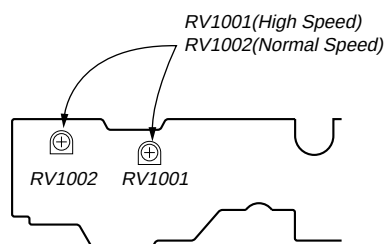
so that adjustment within the following adjustment level.

Adjustment level:

CN301 playback level: 301.5 to 338.3 mV (-8.2 to -7.2 dB)
level difference between the channels: within ± 0.5 dB

Adjustment Location: AUDIO board

Adjustment Location [LEAF SW BOARD]



Record Bias Adjustment (Deck B)

Procedure:

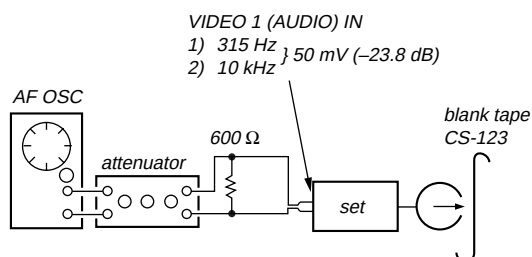
INTRODUCTION

When set to the test mode performed in **Tape Speed Adjustment**, when the tape is rewound after recording, the “REC memory mode” which rewinds only the recorded portion and playback is set.

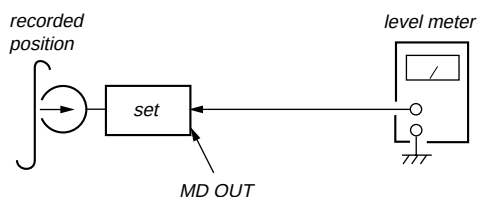
This “REC memory mode” is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO 1.

(After recording, press the  button without stopping will return to the position where recording was started.)

1. Press **FUNCTION** button to select VIDEO 1. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B, press the **REC** button, and then press the  button to start recording.
3. Mode: Record



4. Mode: Playback



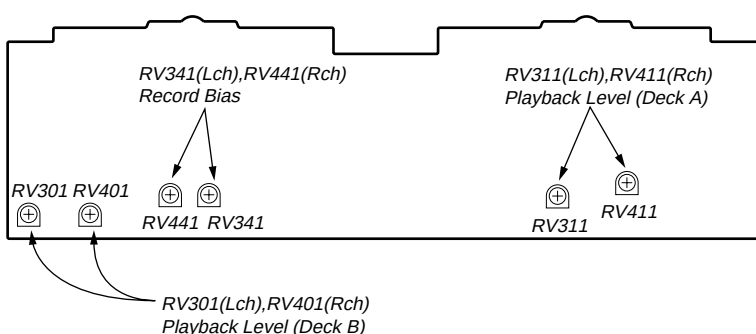
5. Confirm playback the signal recorded in step 2 become adjustment level as follows.
If these levels do not adjustment level, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 3 and 4.

Adjustment level: The playback output of 10 kHz level difference against 315 Hz reference should be ± 1.0 dB.

Adjustment Location: AUDIO board

Adjustment Location:

[AUDIO BOARD] (Conductor Side)



Record Level Adjustment (Deck B)

Procedure:

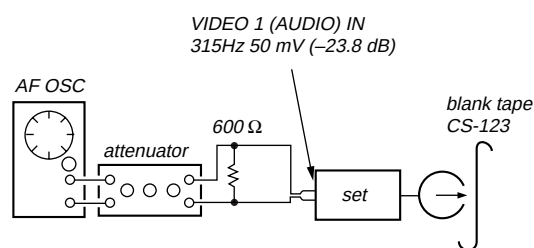
INTRODUCTION

When set to the test mode performed in **Tape Speed Adjustment**, when the tape is rewound after recording, the “REC memory mode” which rewinds only the recorded portion and playback is set.

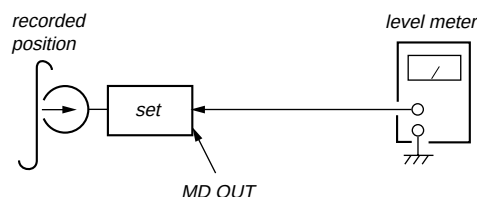
This “REC memory mode” is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO 1.

(After recording, press the  button without stopping will return to the position where recording was started.)

1. Press **FUNCTION** button to select VIDEO 1. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B, press the **REC** button, and then press the  button to start recording.
3. Mode: Record



4. Mode: Playback



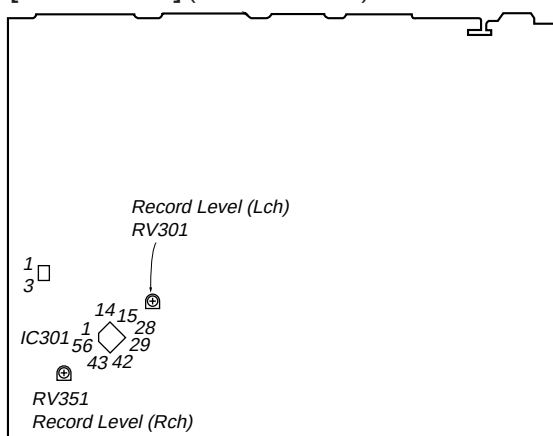
5. Confirm playback the signal recorded in step 2 become adjustment level as follows.
If these levels do not adjustment level, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 3 and 4.

Adjustment level:

CN403 playback level: 47.2 to 53.0 mV (-24.3 to -23.3 dB)

Adjustment Location: MAIN board

[MAIN BOARD] (Conductor Side)

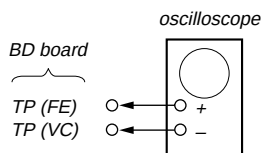


CD SECTION

Note:

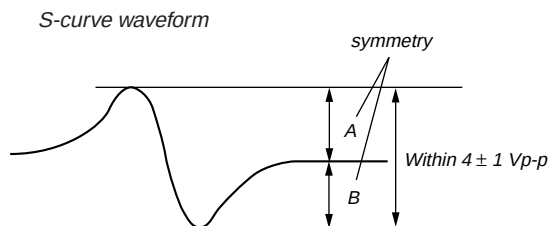
1. CD Block is basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than $10M\Omega$ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure :

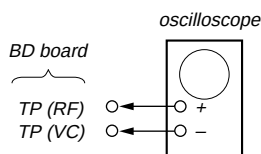
1. Connect the oscilloscope to test points TP (FE) and TP (VC).
2. Connect TP (FE1) and GND, and TP (AGCCON) and GND of the BD board with lead wires.
3. Press the button to turn the set ON.
4. With the disc (YEDS-18) loaded, press the button and perform focus search. (Focus search will be performed in the same way even while the disc table is pushed in and out.)
5. Check the symmetry and peak to peak level of the oscilloscope waveform (S curve) at this time.



6. After check, remove the lead wire connected in step 2.

Note: • Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

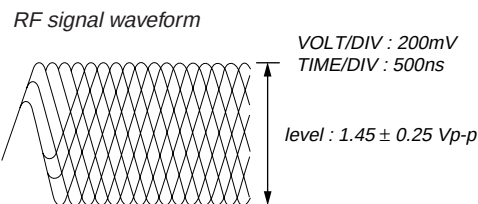
RF Level Check



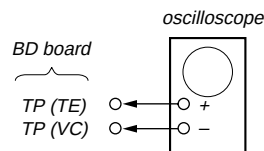
Procedure :

1. Connect oscilloscope to test point TP (RF) and TP (VC) on BD board.
2. Connect TP (AGCCON) and GND of the BD board with lead wires.
3. Press the button to turn the set ON.
4. Put disc (YEDS-18) in and playback 5 track.
5. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.
6. After check, remove the lead wire connected in step 2.

Note: Clear RF signal waveform means that the shape “ $\diamond$ ” can be clearly distinguished at the center of the waveform.



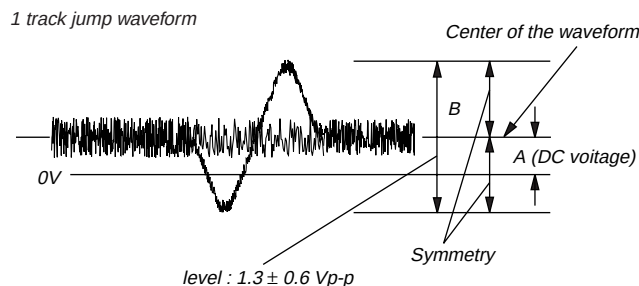
E-F Balance (1 Track Jump) check



Procedure:

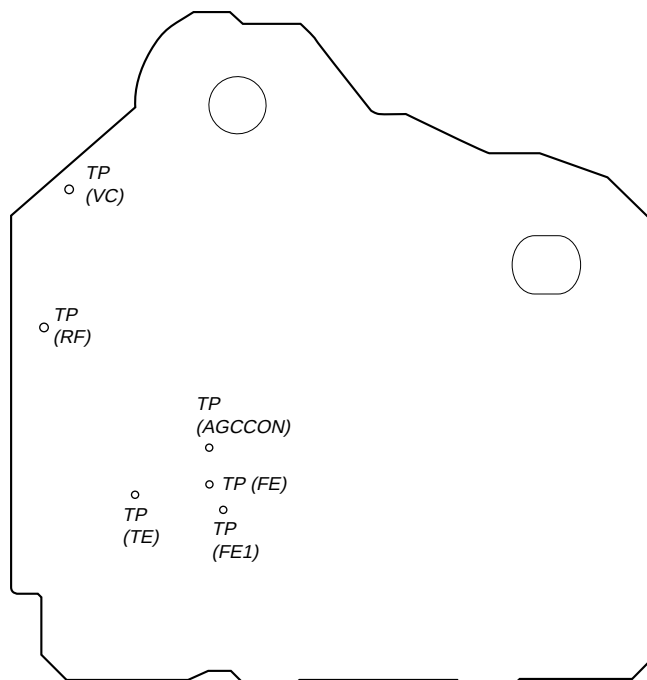
1. Connect oscilloscope to test point TP (TE) on BD board.
2. Press the button to turn the unit ON.
3. Put disc (YEDS-18) in to play the number five track.
4. Press the button.
5. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform. Confirm the following:

- $A/B \times 100 = \text{less than } \pm 22 (\%)$
- $B = 1.3 \pm 0.6 Vp-p$



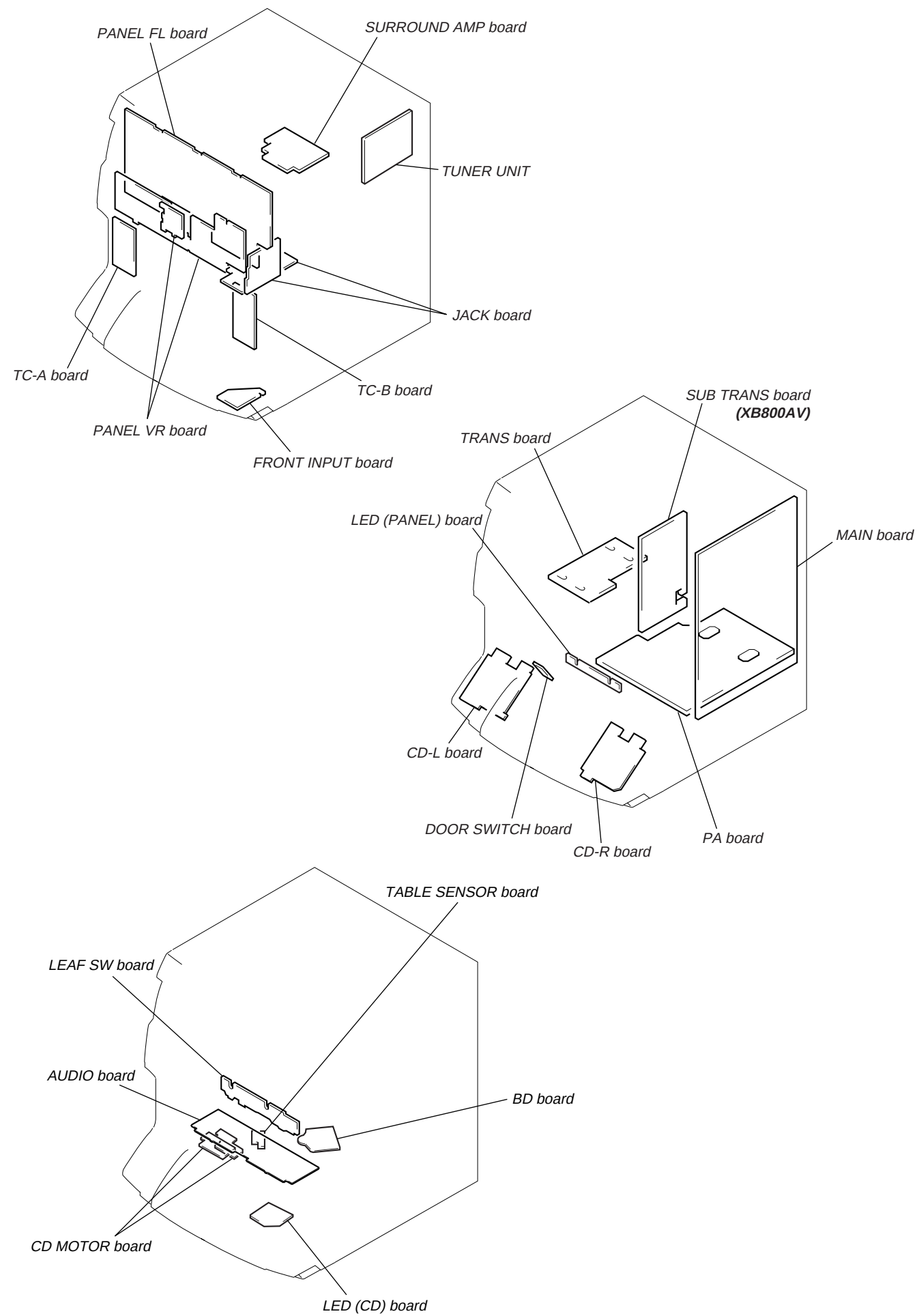
Adjustment Location :

[BD BOARD] — SIDE A —



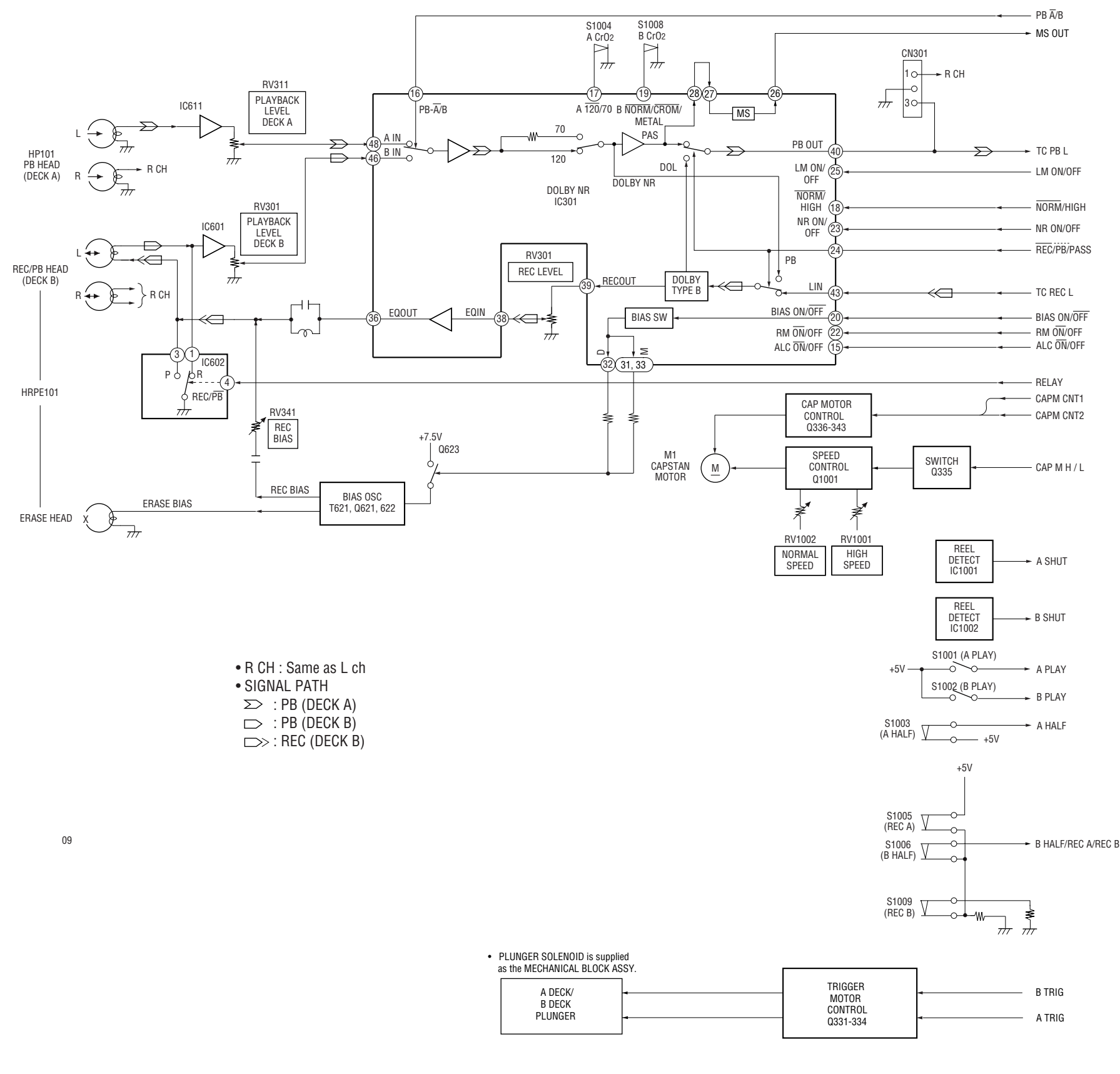
SECTION 7 DIAGRAMS

7-1. CIRCUIT BOARDS LOCATION



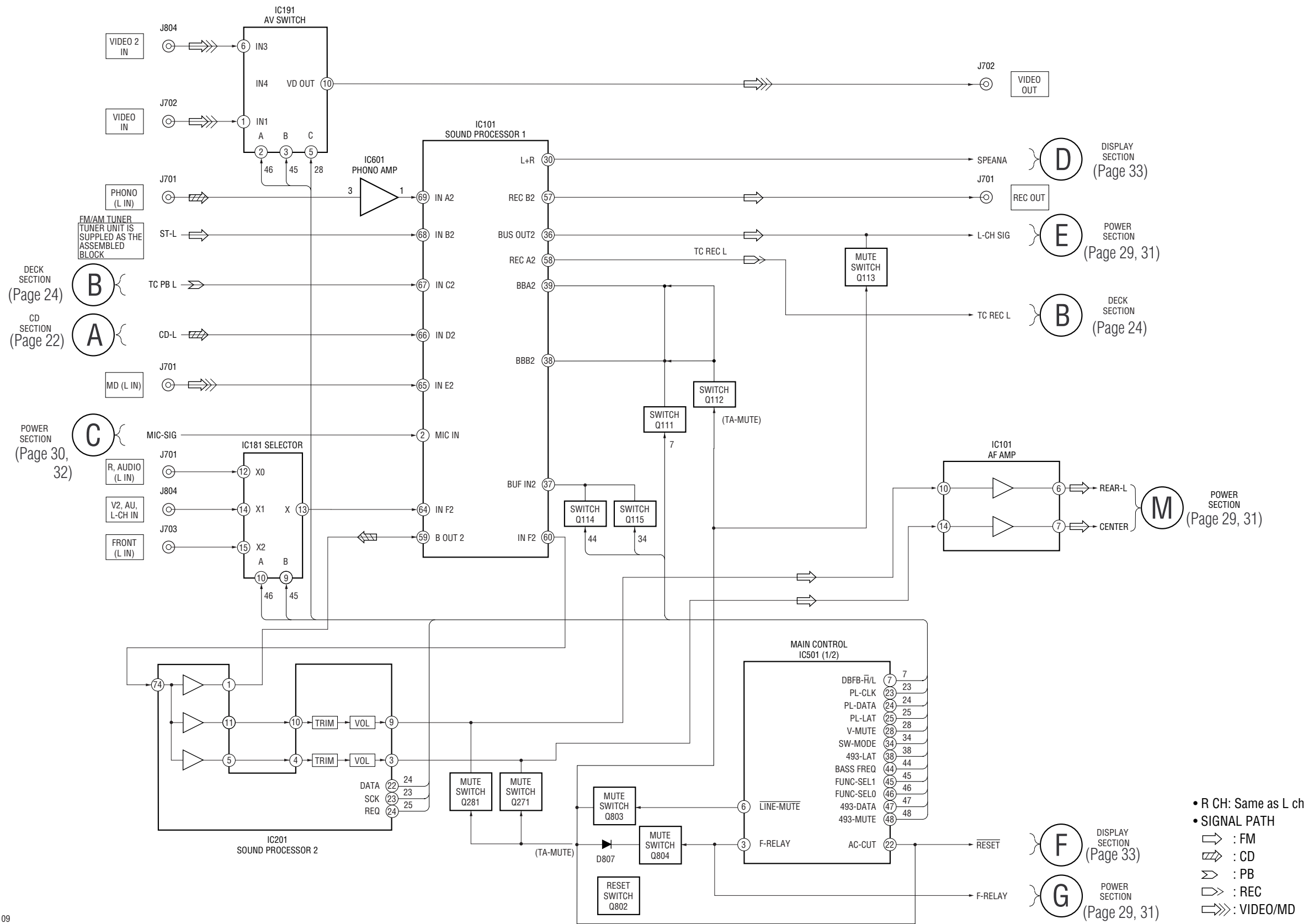


- DECK SECTION -



B
MAIN
SECTION
(Page 25,
26, 27)

– MAIN (1/2) SECTION –



– MAIN (2/2) SECTION –

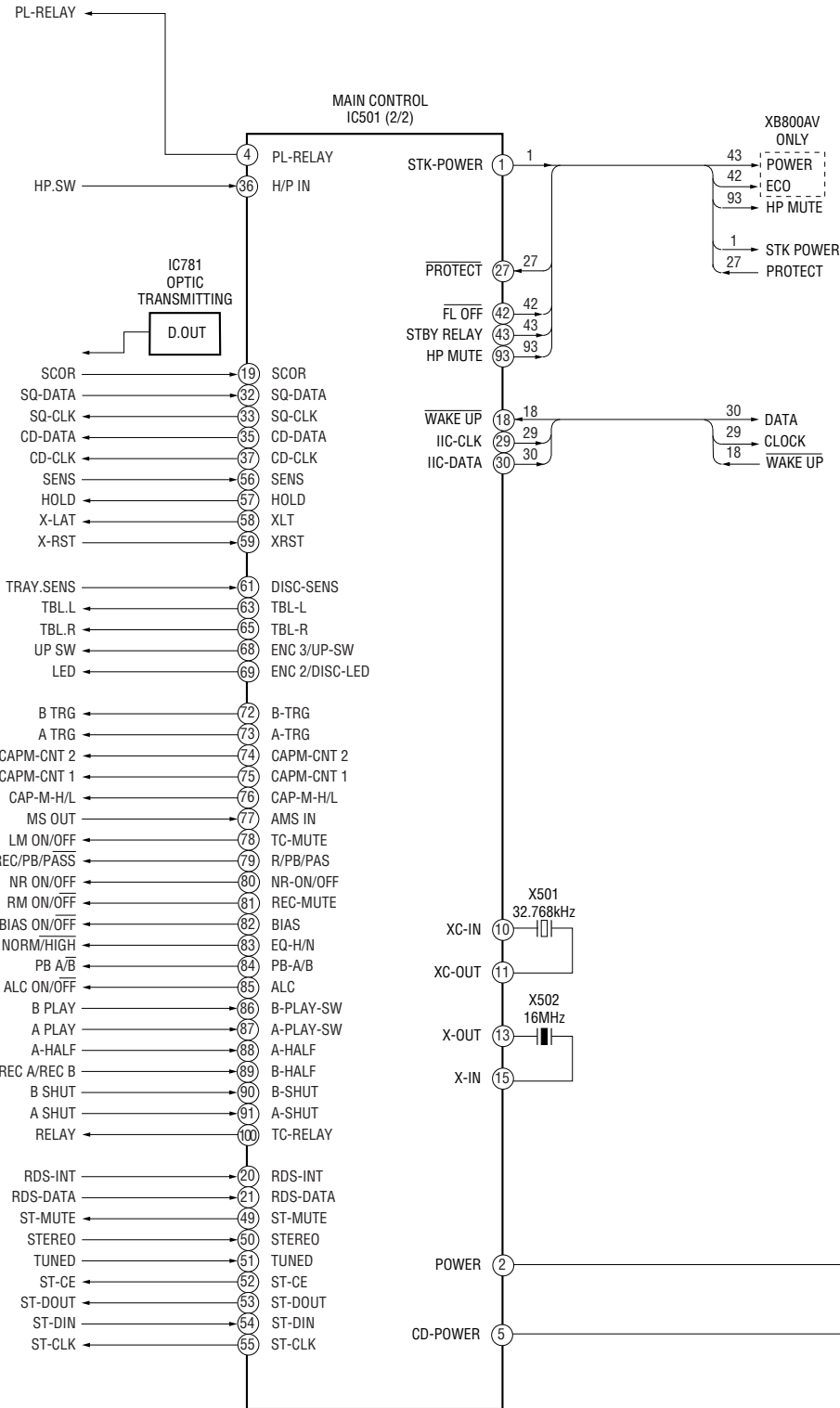
N
POWER
SECTION
(Page 29, 31)

H
POWER
SECTION
(Page 30, 32)

A
BD (CD)
SECTION
(Page 22)

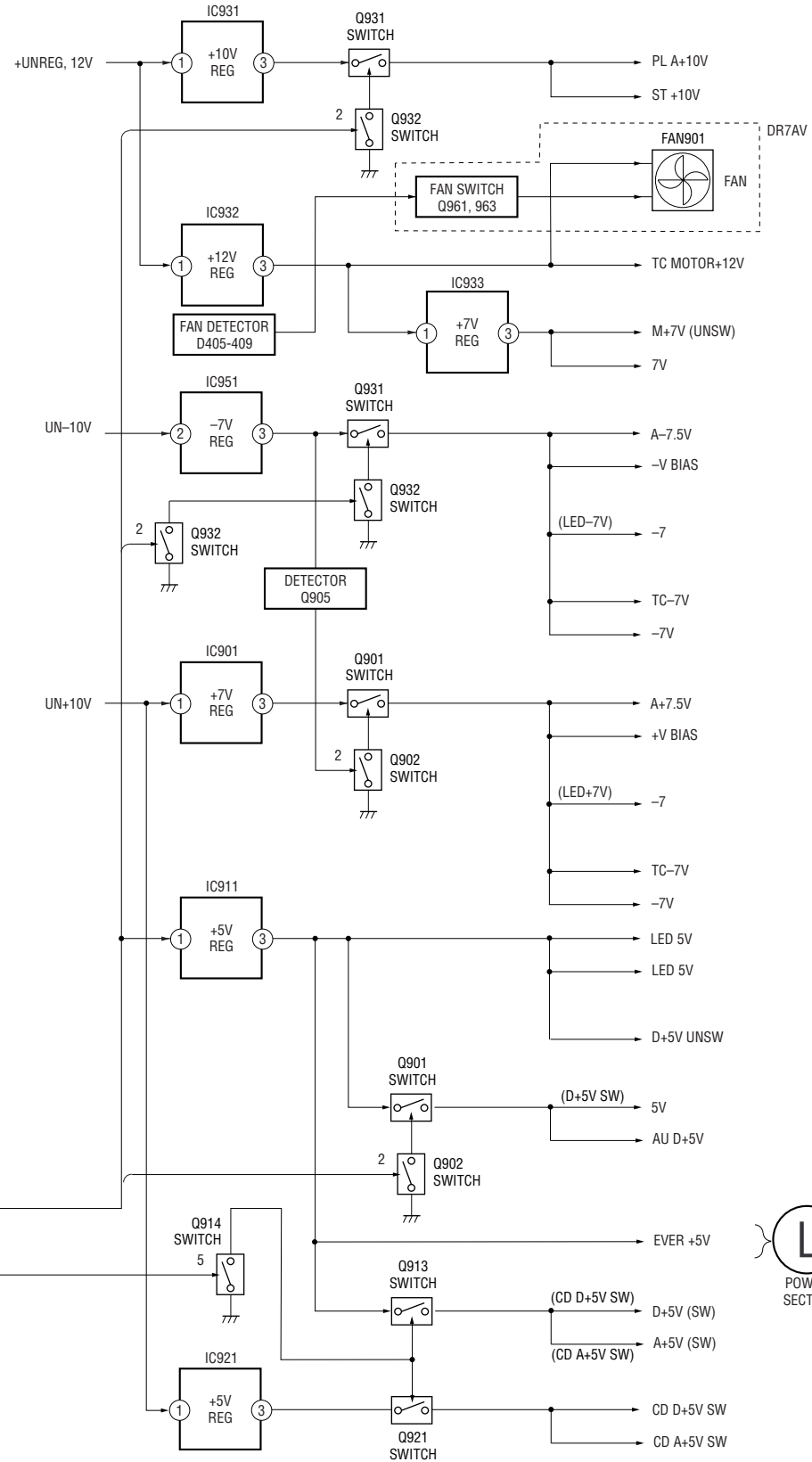
B
DECK
SECTION
(Page 24)

FM/AM TUNER
TUNER UNIT IS
SUPPLIED AS THE
ASSEMBLED
BLOCK



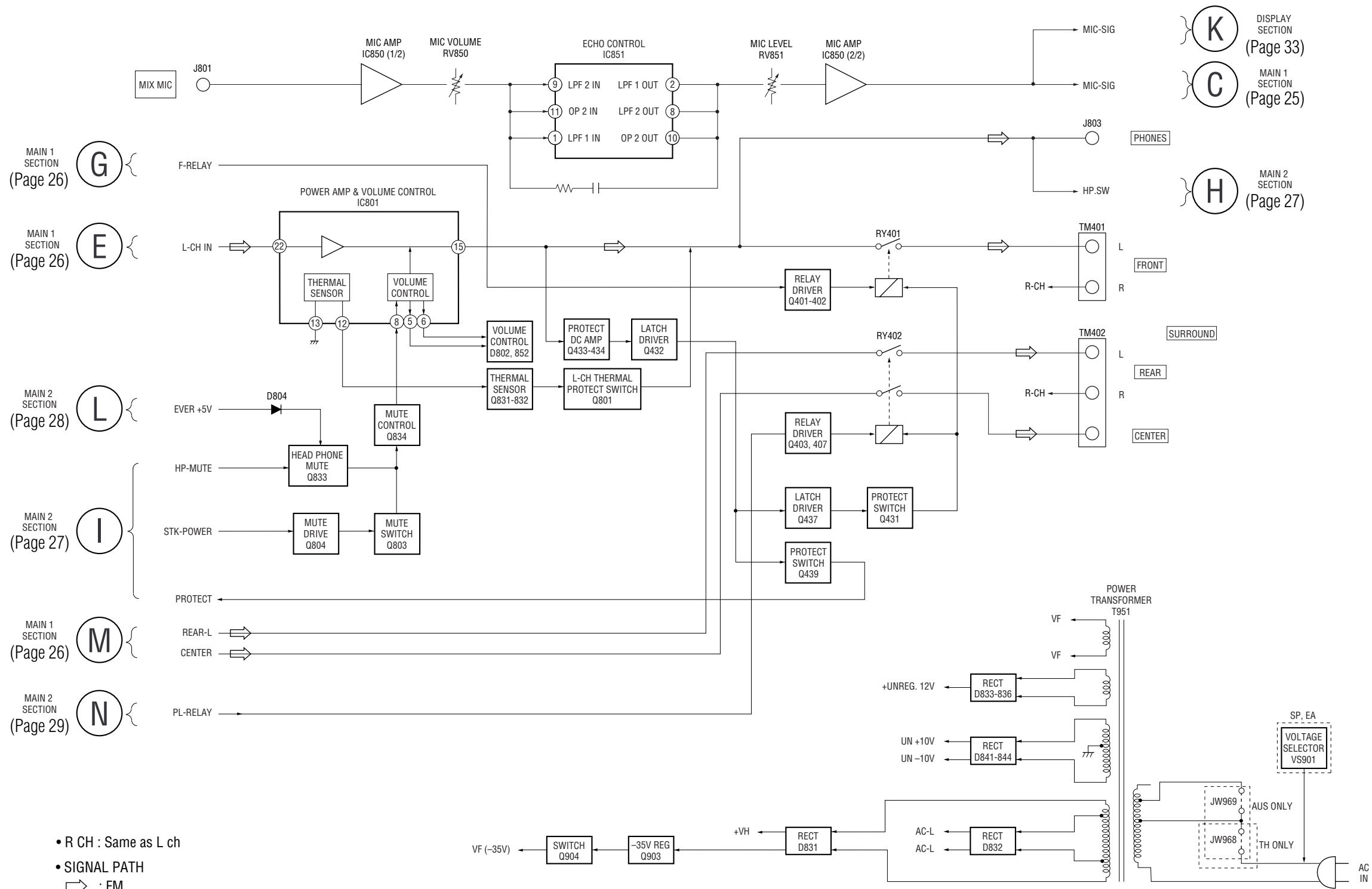
I
POWER
SECTION
(Page 29, 31)

J
DISPLAY
SECTION
(Page 33)

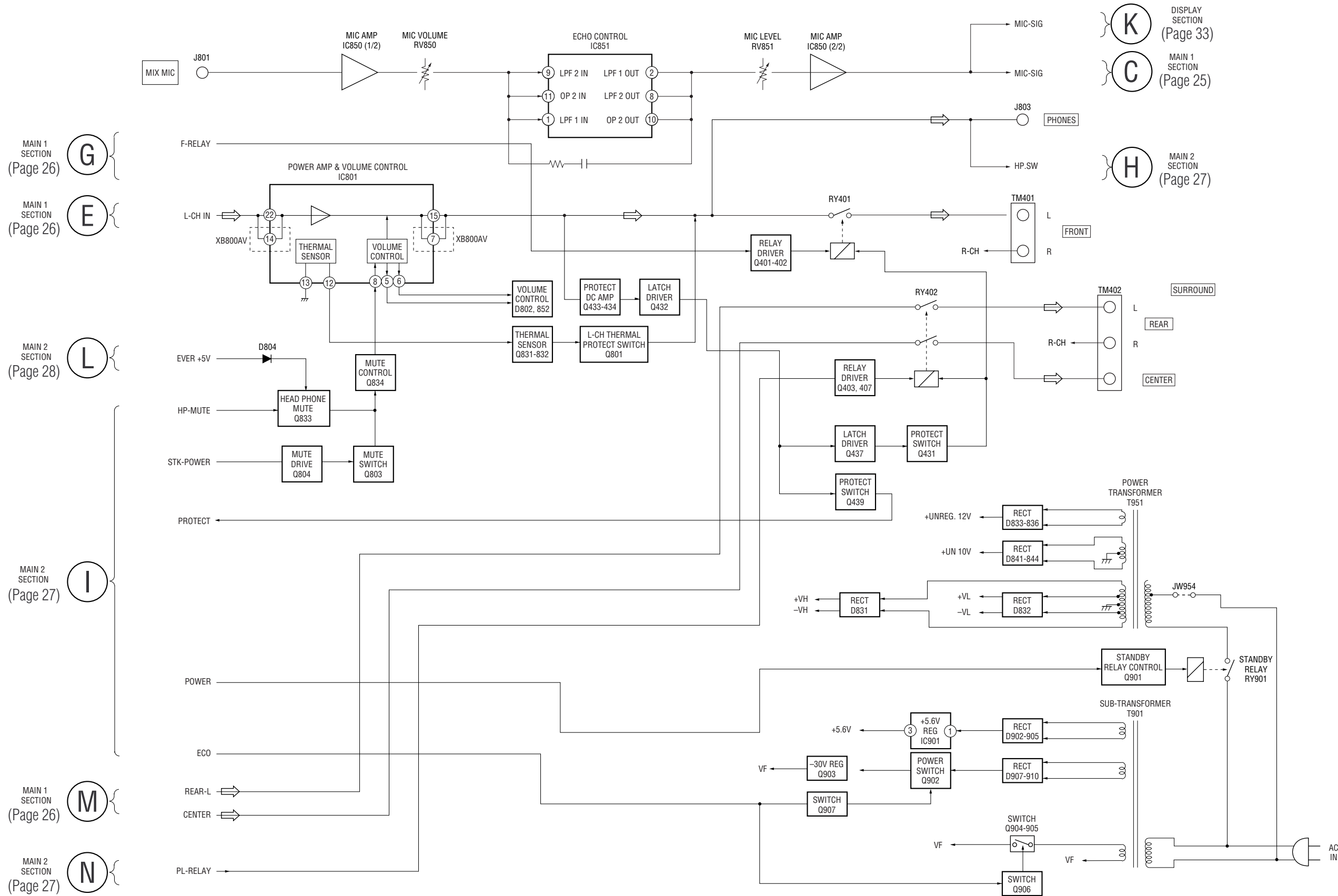


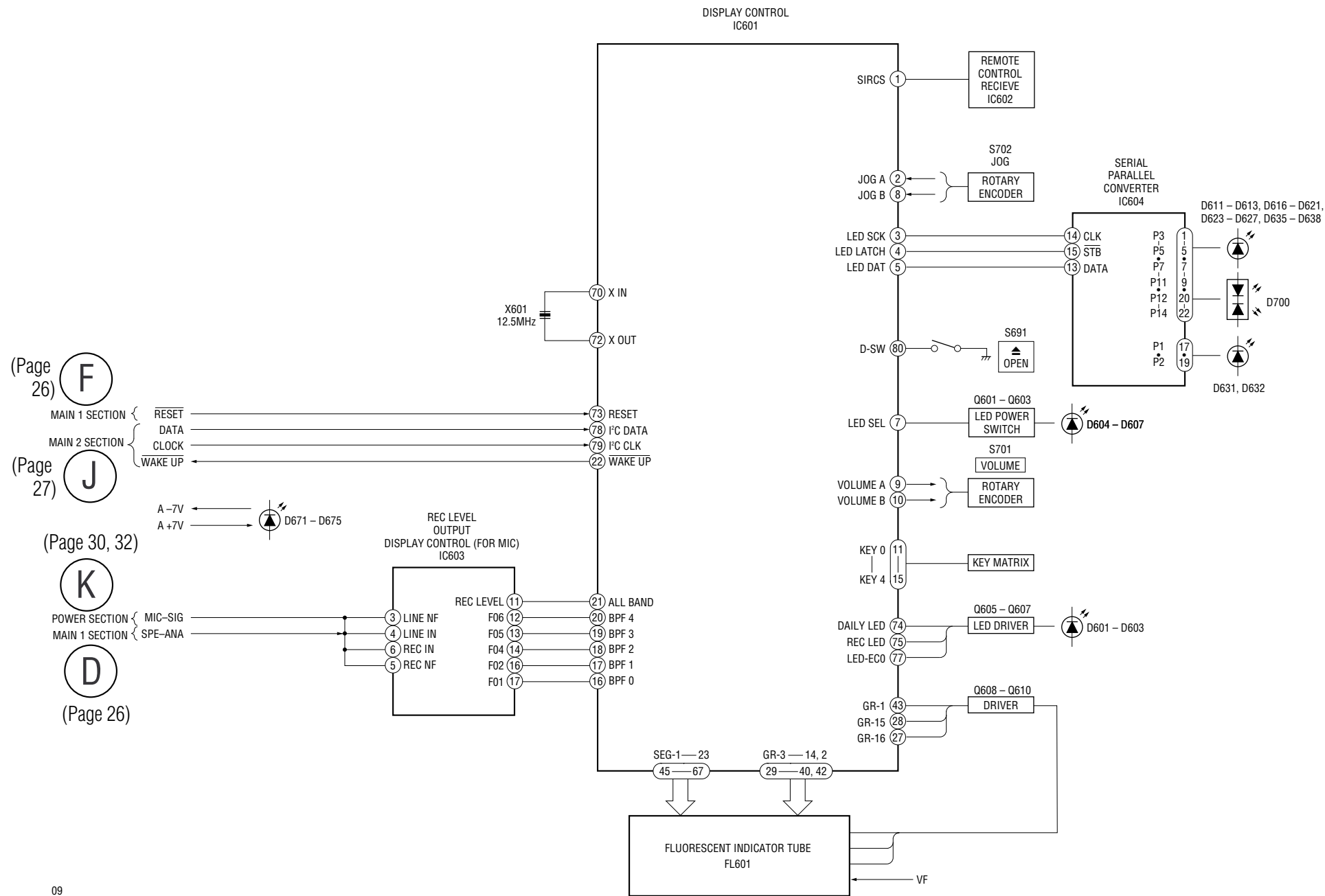
L
POWER
SECTION
(Page 29, 31)

– POWER SECTION – (DR7AV model)



– POWER SECTION – (XB800AV model)





THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- $\triangle$: internal component.
- $\square$: panel designation.

Note: The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

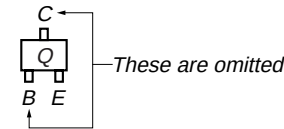
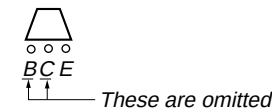
- $\boxed{B+}$: B+ Line.
- $\boxed{B-}$: B- Line.
- $\boxed{}$: adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 $M\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - $\Rightarrow$: FM
 - $\Rightarrow\Rightarrow$: VIDEO/MD
 - $\Rightarrow$: PB (DECK A)
 - $\Rightarrow$: PB (DECK B)
 - $\Rightarrow$: REC (DECK B)
 - $\Rightarrow$: CD
 - $\Rightarrow$: digital out
 - $\Rightarrow\Rightarrow$: PHONO
- Abbreviation
 - EA : Saudi Arabia model.
 - AUS : Australian model.
 - SP : Singapore model.
 - TH : Thai model.

For printed wiring boards.

Note:

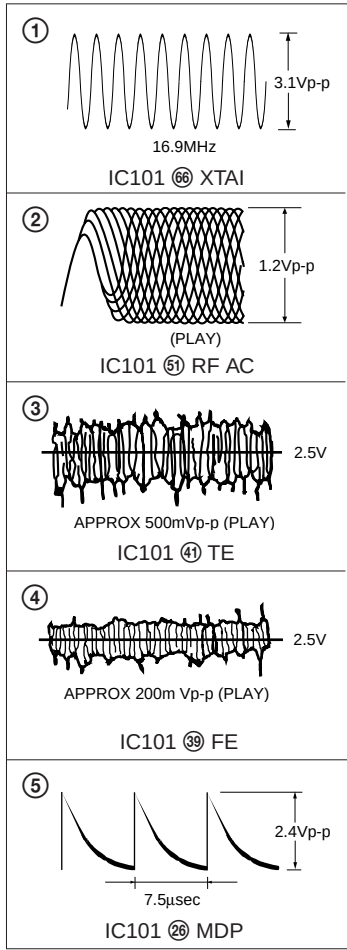
- $\circ$: parts extracted from the component side.
- $\circ$: Through hole.
- $\triangle$: internal component.
- $\square$: Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

Indication of transistor

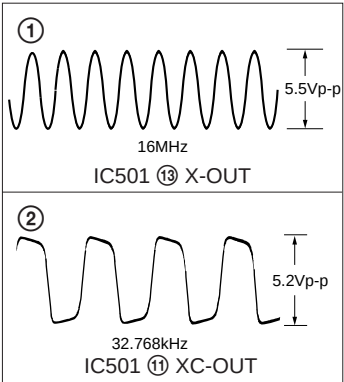


WAVEFORMS

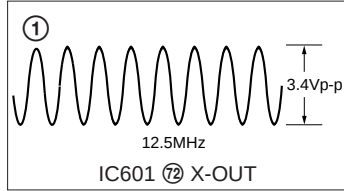
- BD (CD) SECTION -



- MAIN (2/5) SECTION -

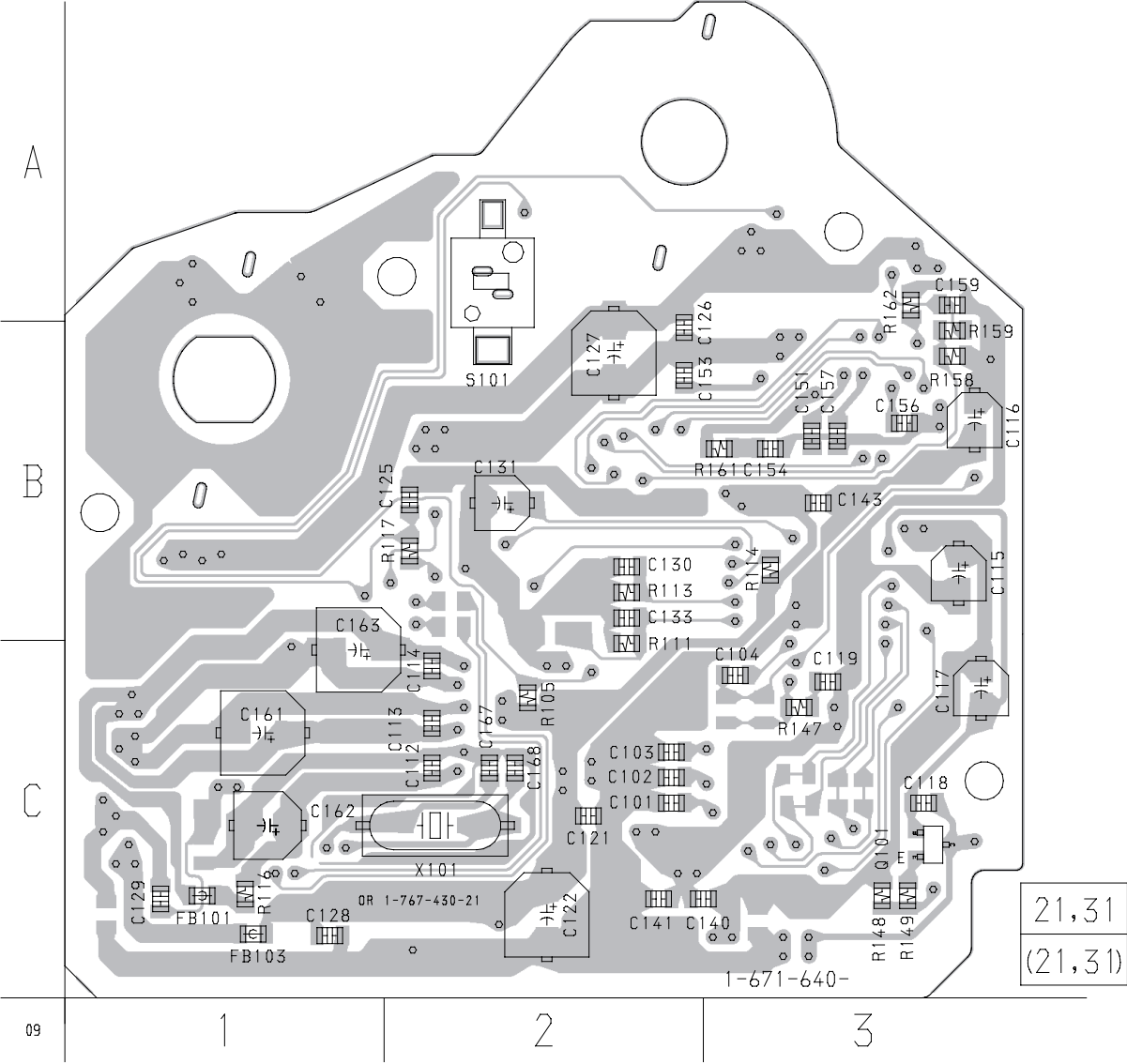


- PANEL FL SECTION -

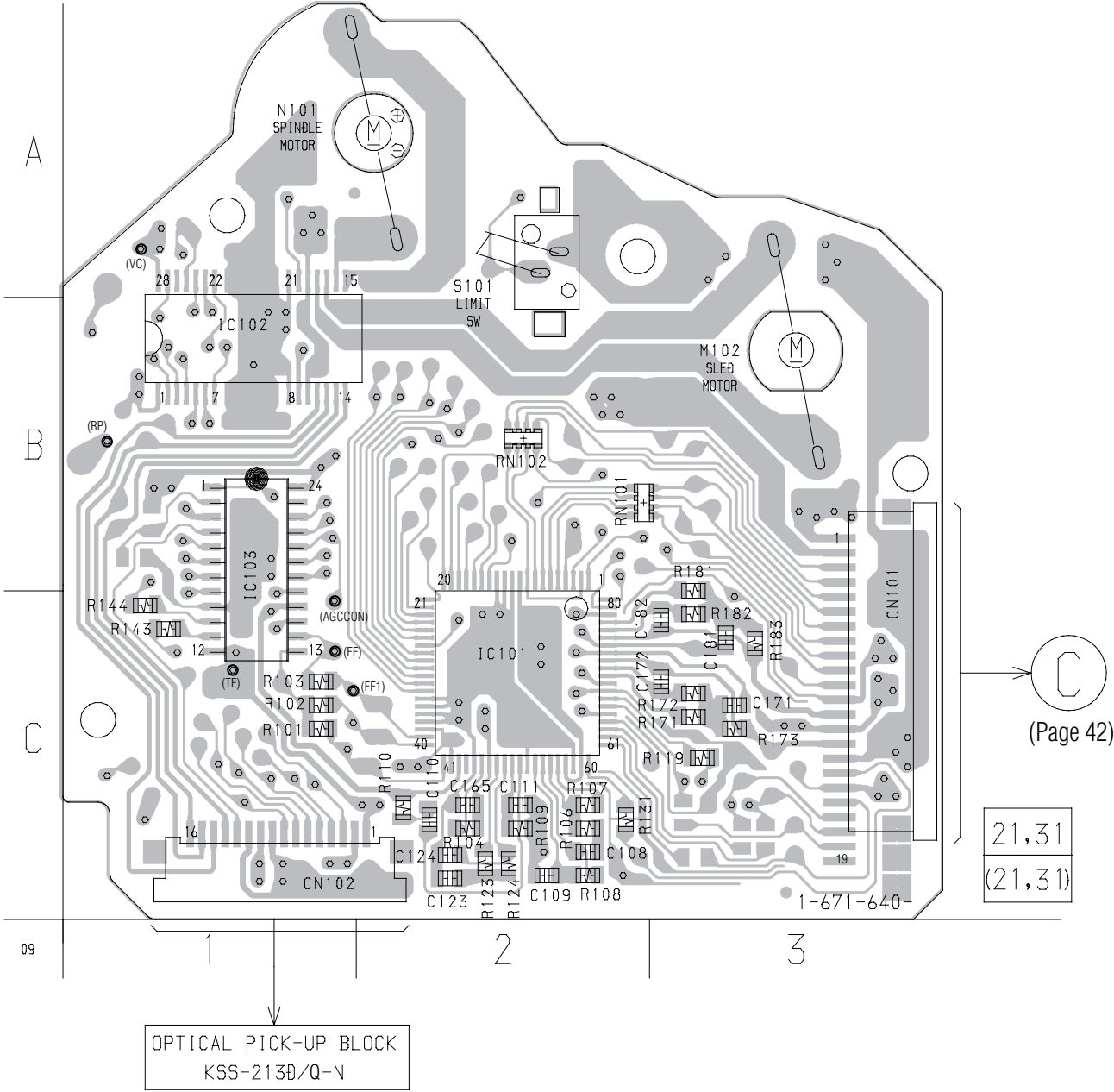


7-3. PRINTED WIRING BOARD – BD (CD) SECTION –
• See page 19 for Circuit Boards Location.

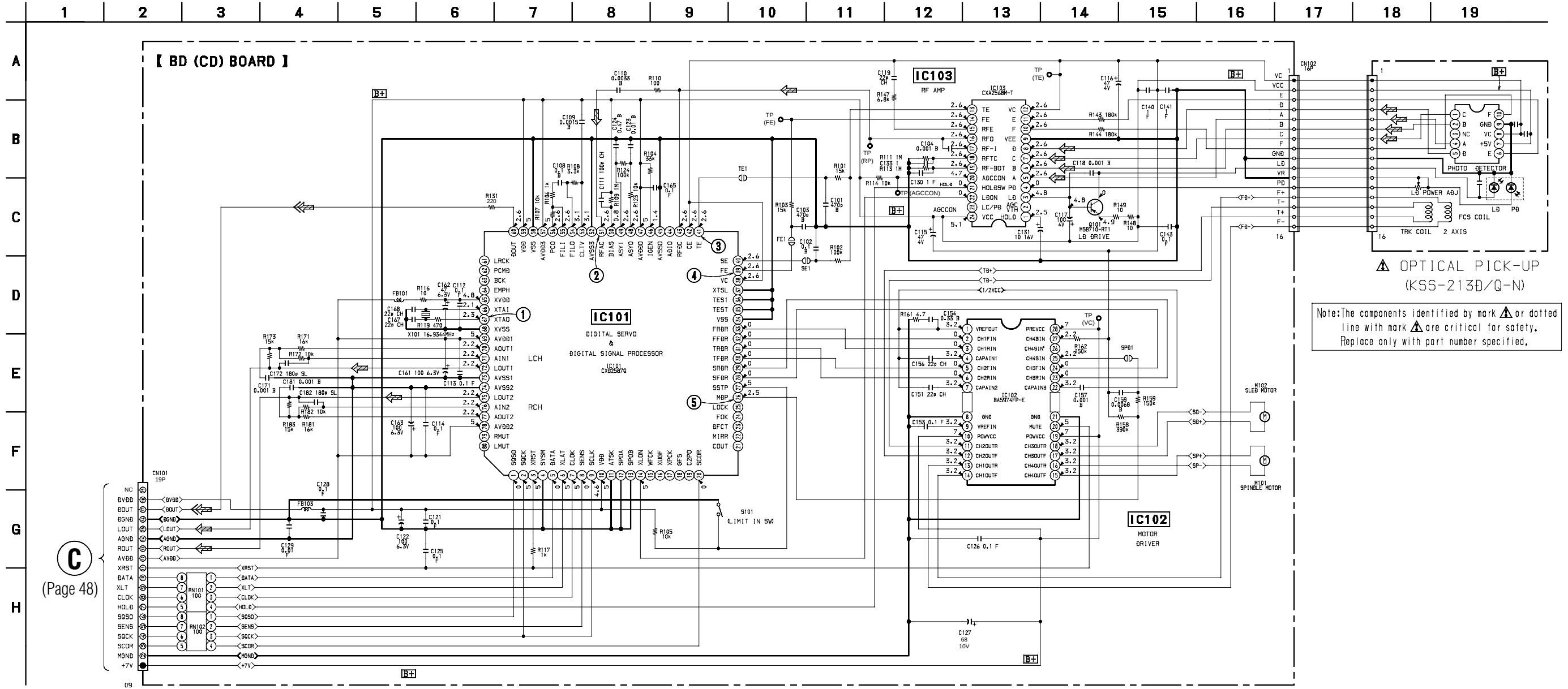
【 BD (CD) BOARD 】 (SIDE A)



【 BD (CD) BOARD 】 (SIDE B)

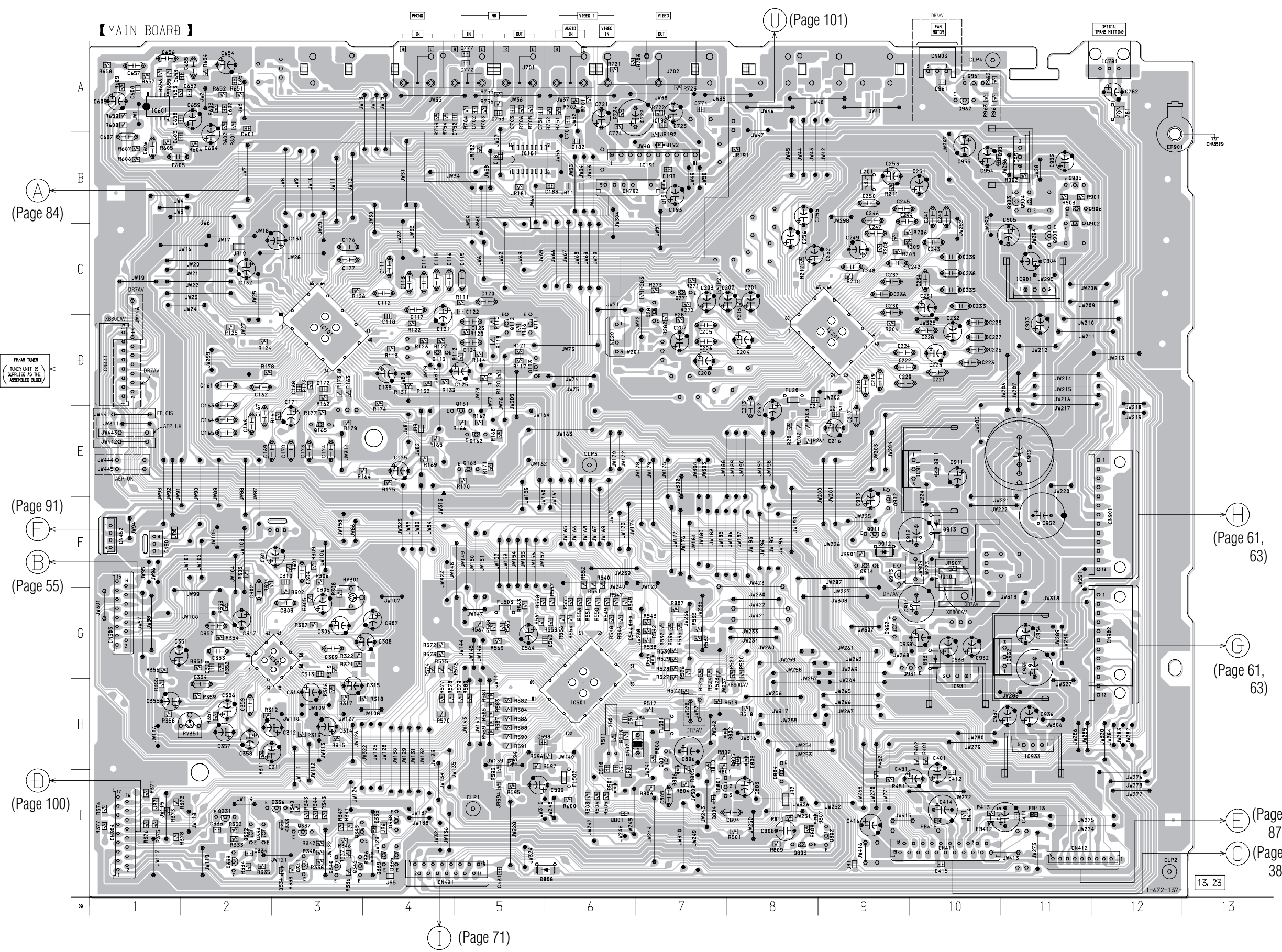


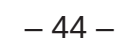
7-4. SCHEMATIC DIAGRAM – BD (CD) SECTION –
• See page 36 for Waveforms.



7-5. PRINTED WIRING BOARD – MAIN SECTION –
• See page 19 for Circuit Boards Location.

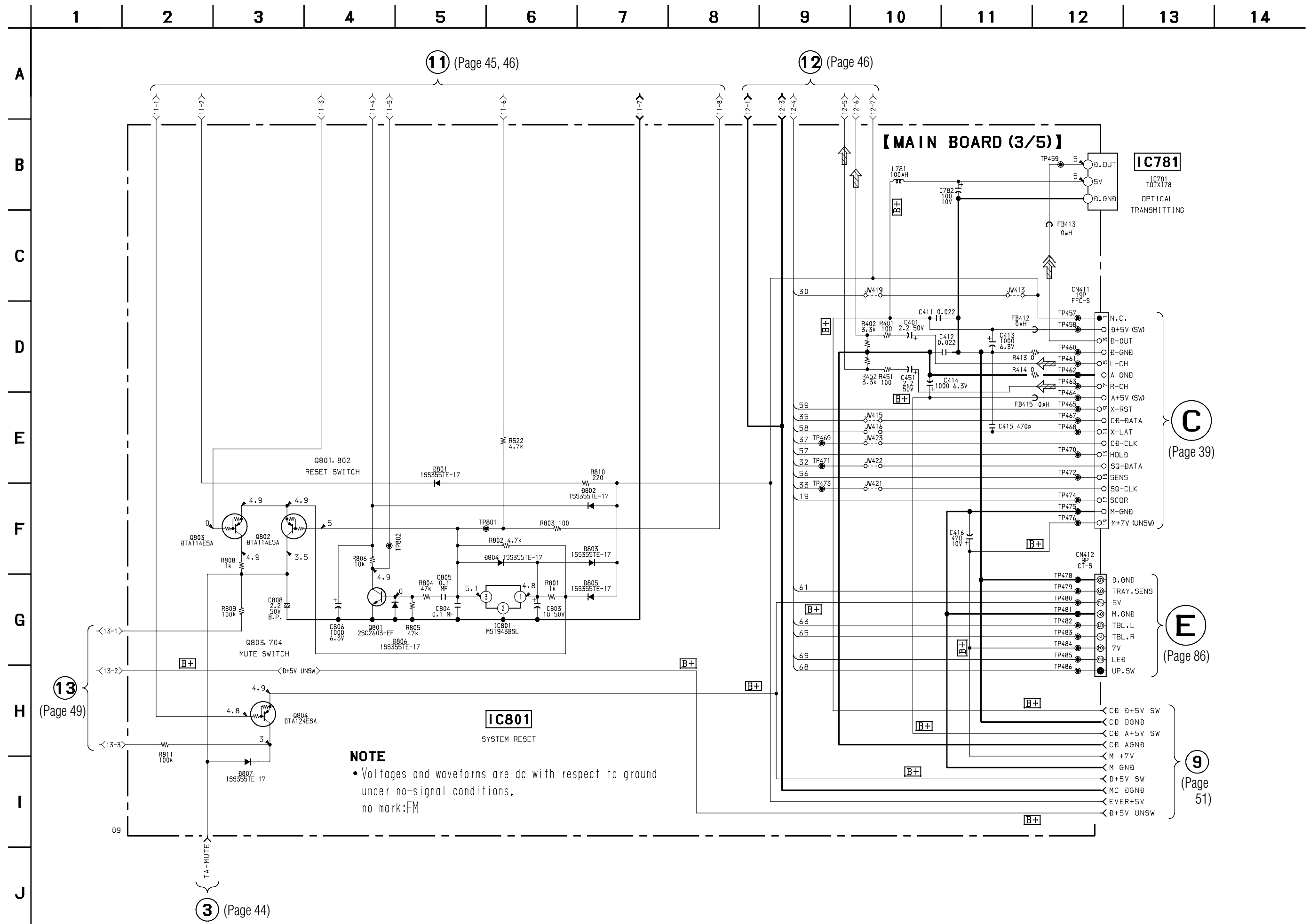
Ref. No.	Location
D333	I-3
D334	I-3
D335	I-4
D336	I-4
D501	I-6
D534	G-7
D544	G-7
D802	H-8
D803	H-8
D804	H-7
D805	H-8
D806	H-7
D807	I-9
D808	I-6
D911	E-10
D912	F-9
D913	F-10
D931	G-10
D951	B-11
IC101	D-3
IC201	C-9
IC181	B-5
IC191	B-7
IC301	G-3
IC501	H-6
IC601	A-1
IC901	C-11
IC931	G-10
IC932	G-11
IC933	H-11
IC951	B-11
IC801	I-8
IC911	E-10
Q111	D-5
Q112	D-5
Q113	D-5
Q115	D-4
Q161	E-5
Q162	E-5
Q163	E-5
Q165	E-3
Q271	C-7
Q281	C-7
Q331	I-2
Q332	I-2
Q333	I-2
Q334	I-2
Q335	I-4
Q336	I-3
Q337	I-3
Q338	I-4
Q339	I-4
Q340	I-3
Q341	I-3
Q342	I-3
Q343	I-3
Q801	H-7
Q802	I-9
Q803	I-8
Q804	I-8
Q901	C-11
Q902	B-11
Q903	B-11
Q904	B-11
Q905	B-11
Q906	B-11
Q911	F-9
Q912	F-9
Q913	F-9
Q914	F-9
Q931	G-10
Q932	G-9
Q961	A-10
Q962	A-10

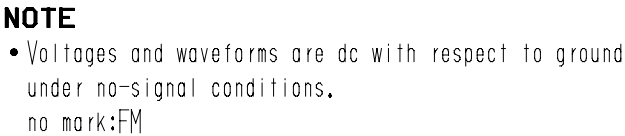




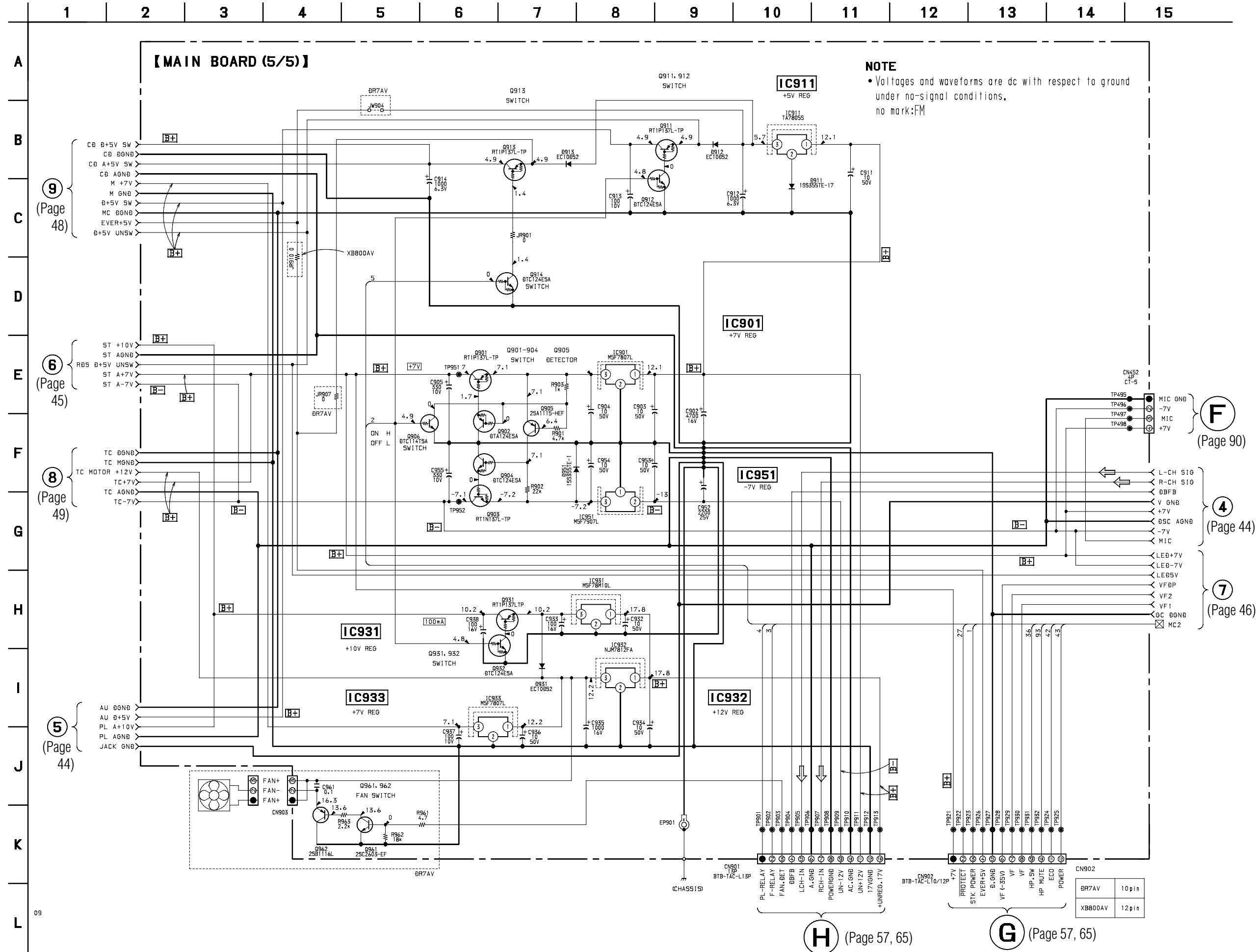


7-8. SCHEMATIC DIAGRAM – MAIN (3/5) SECTION –
 • See page 41 for Printed Wiring Board.

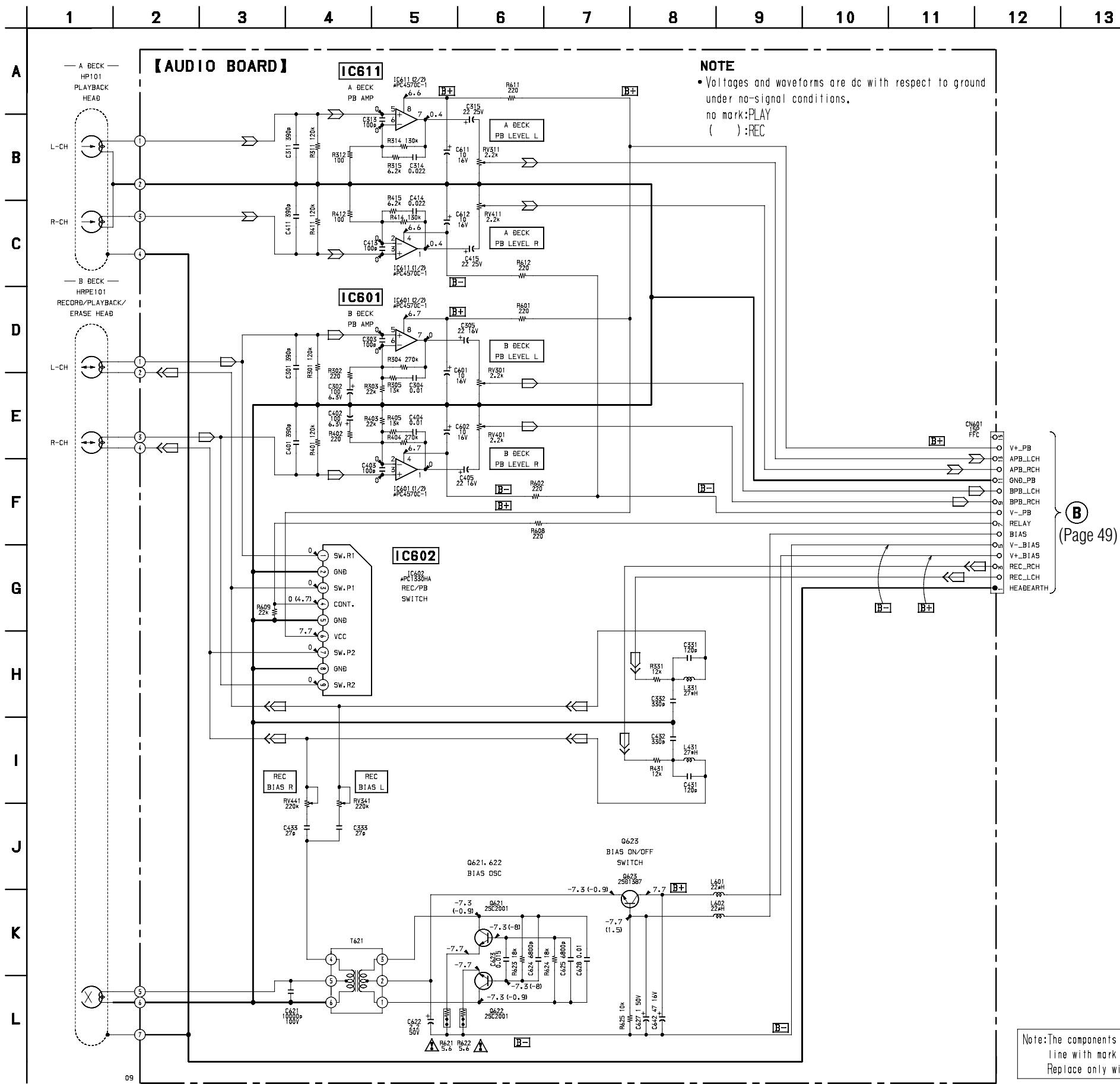




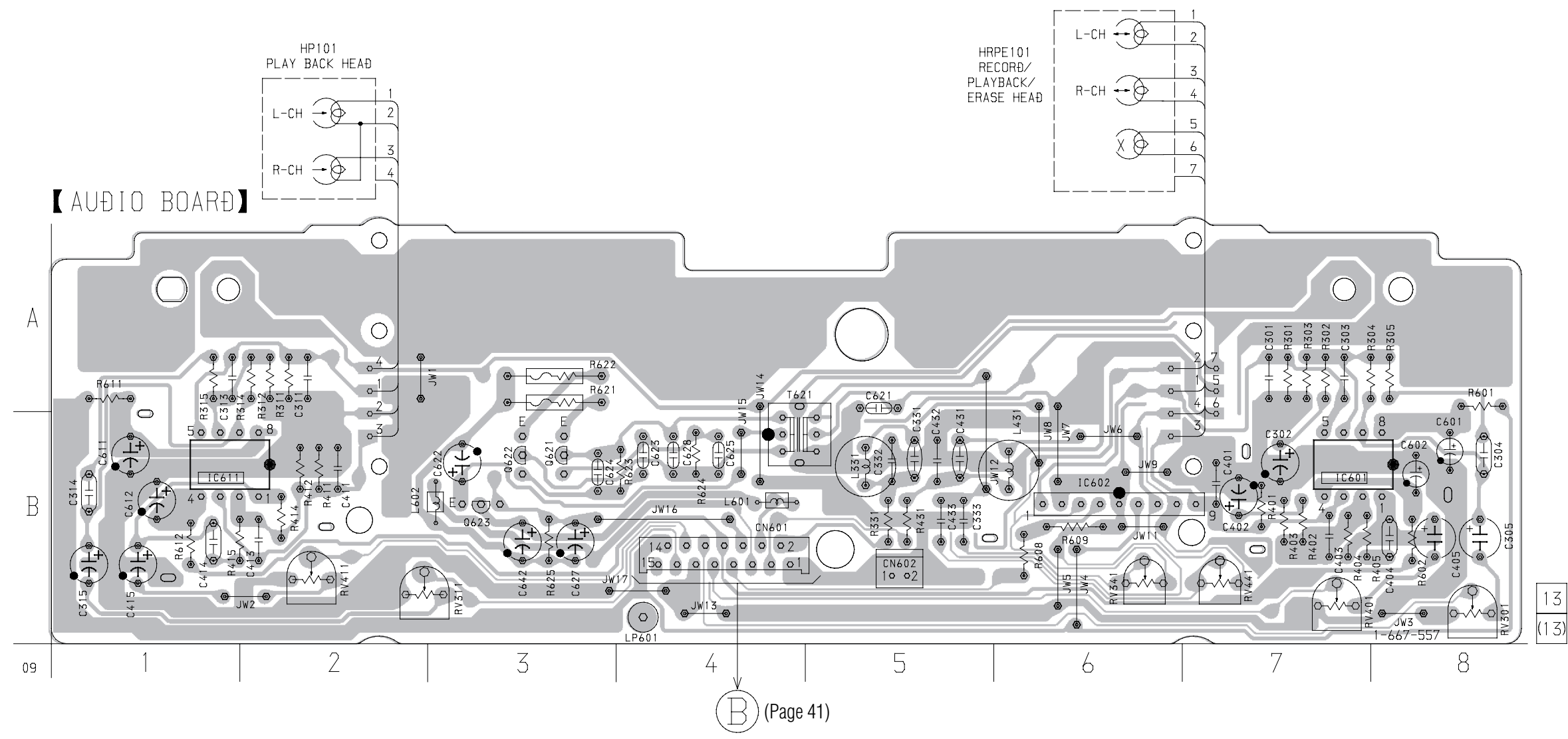
7-10. SCHEMATIC DIAGRAM – MAIN (5/5) SECTION –
• See page 41 for Printed Wiring Board.

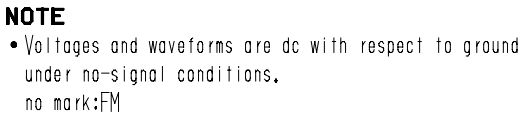


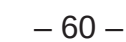
7-11. SCHEMATIC DIAGRAM – DECK SECTION –

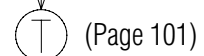


7-12. PRINTED WIRING BOARD – DECK SECTION –
• See page 19 for Circuit Boards Location.



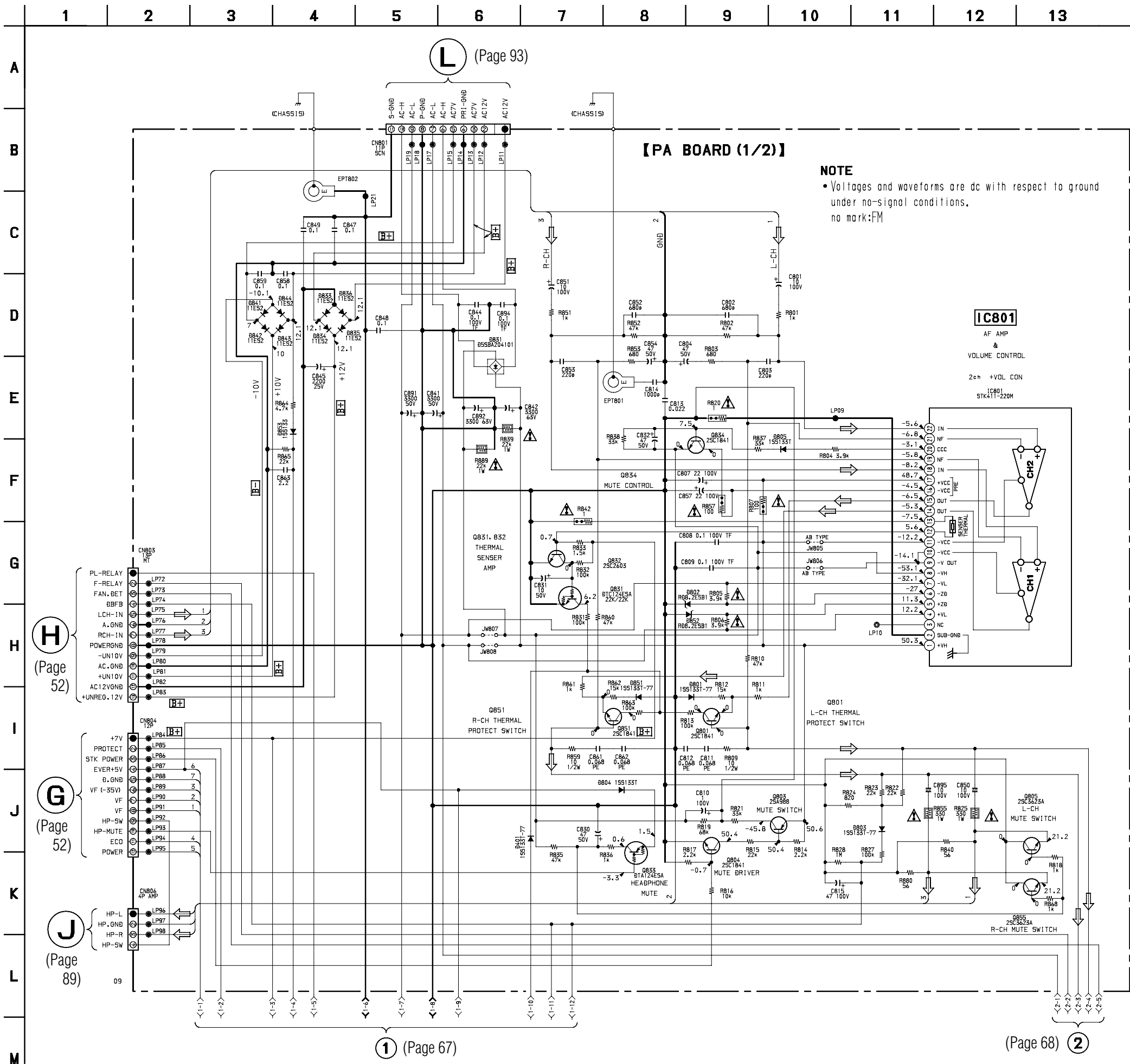




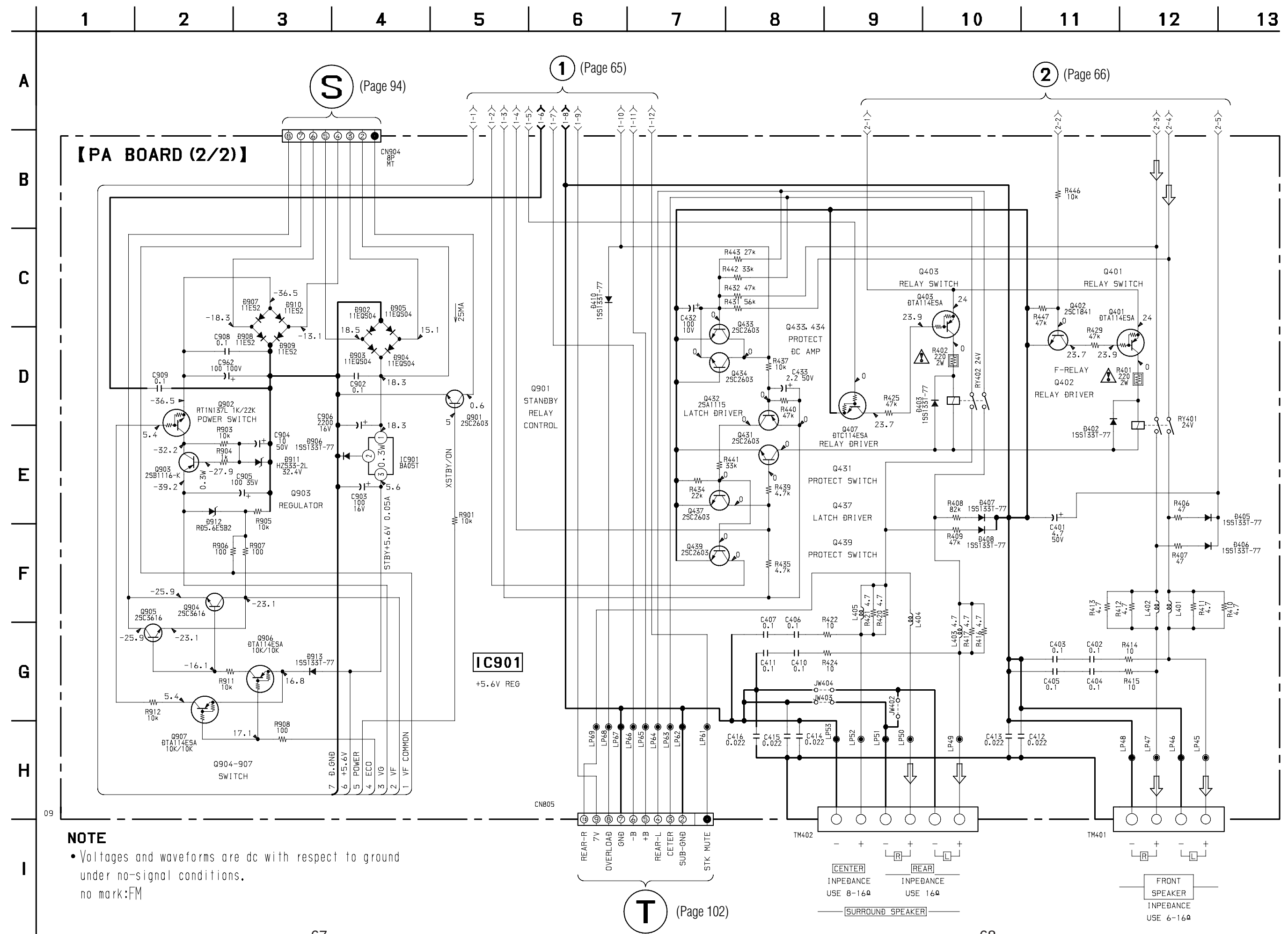


Ref. No.	Location
D401	G-4
D402	C-2
D403	E-8
D405	A-1
D406	B-1
D801	F-4
D802	E-5
D803	E-6
D823	
D831	I-8
D833	I-5
D834	I-5
D835	I-5
D836	I-5
D841	I-3
D842	I-2
D843	I-3
D844	I-3
D851	F-4
D852	E-5
D911	I-9
D912	I-8
IC801	D-4
Q401	C-1
Q402	C-1
Q403	E-8
Q407	E-8
Q431	F-8
Q432	G-8
Q433	G-8
Q434	G-7
Q437	G-8
Q439	G-8
Q801	F-4
Q803	F-6
Q804	F-6
Q805	H-3
Q831	F-2
Q832	F-2
Q833	G-2
Q834	F-3
Q851	F-4
Q855	H-3
Q903	I-9

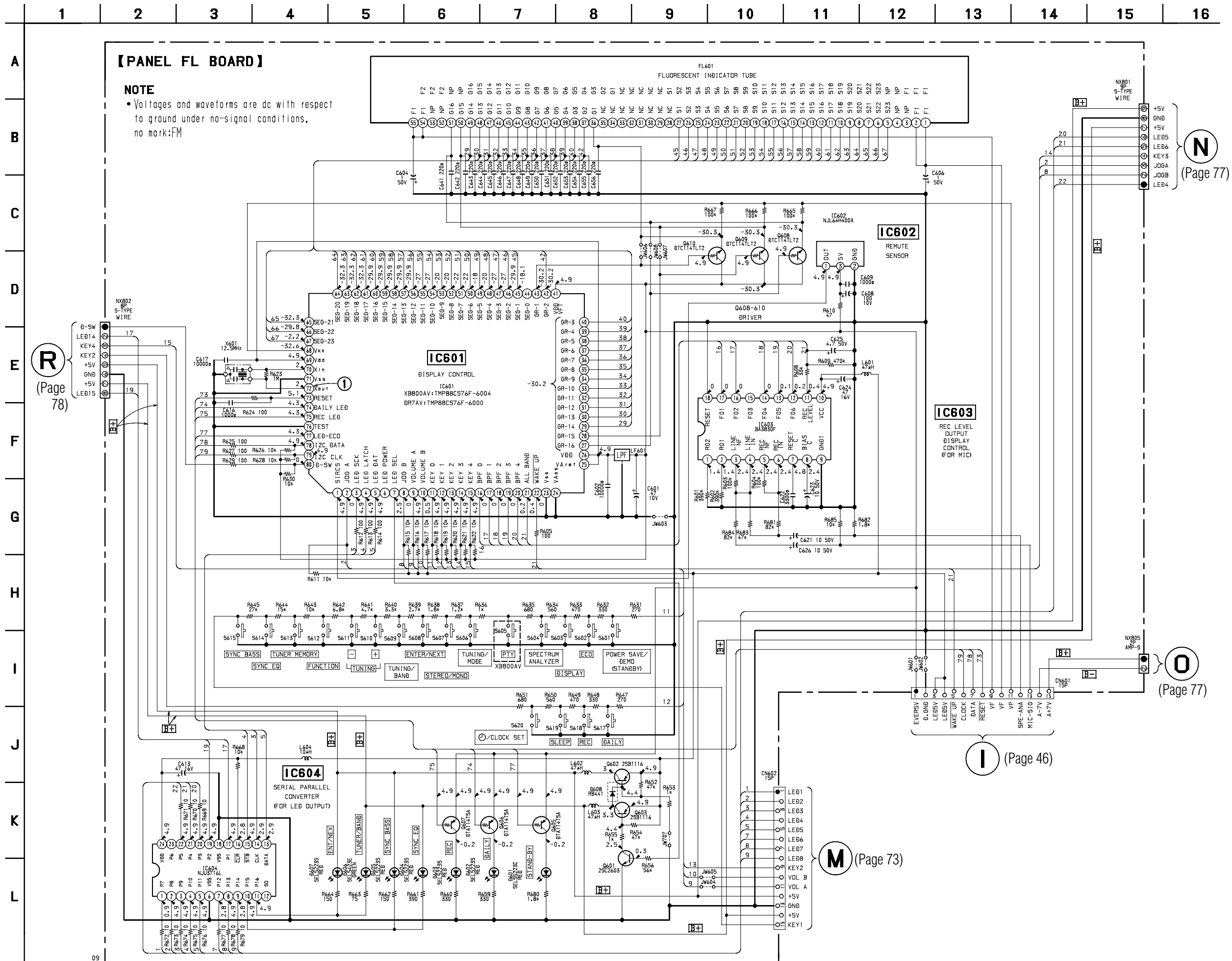
7-17. SCHEMATIC DIAGRAM – POWER (1/2) SECTION – (XB800AV model)
• See page 63 for Printed Wiring Board.



7-18. SCHEMATIC DIAGRAM – POWER (2/2) SECTION – (XB800AV model)
• See page 63 for Printed Wiring Board.

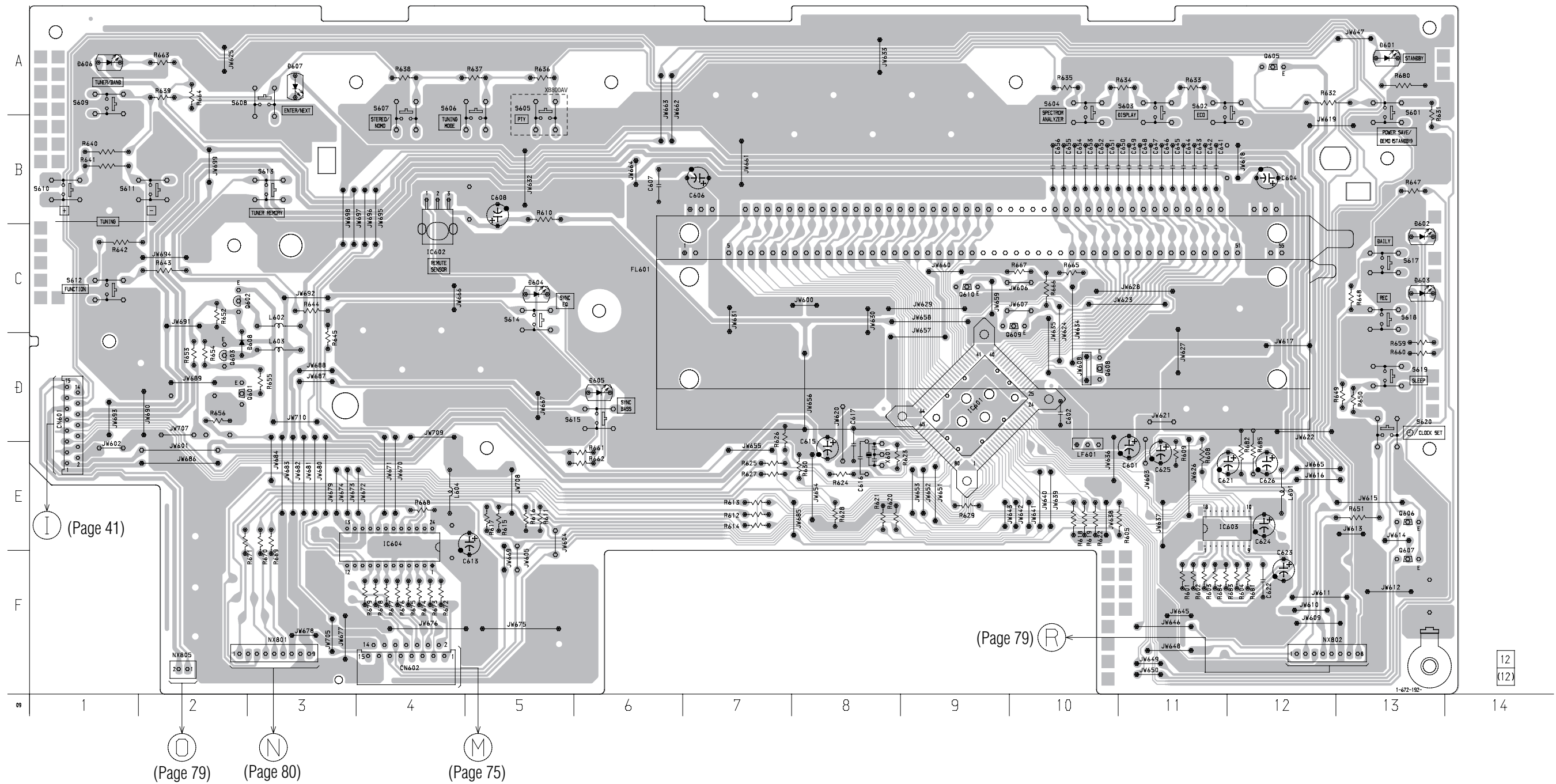


7-19. SCHEMATIC DIAGRAM – PANEL FL SECTION –



7-20. PRINTED WIRING BOARD – PANEL FL SECTION –
 • See page 19 for Circuit Boards Location.

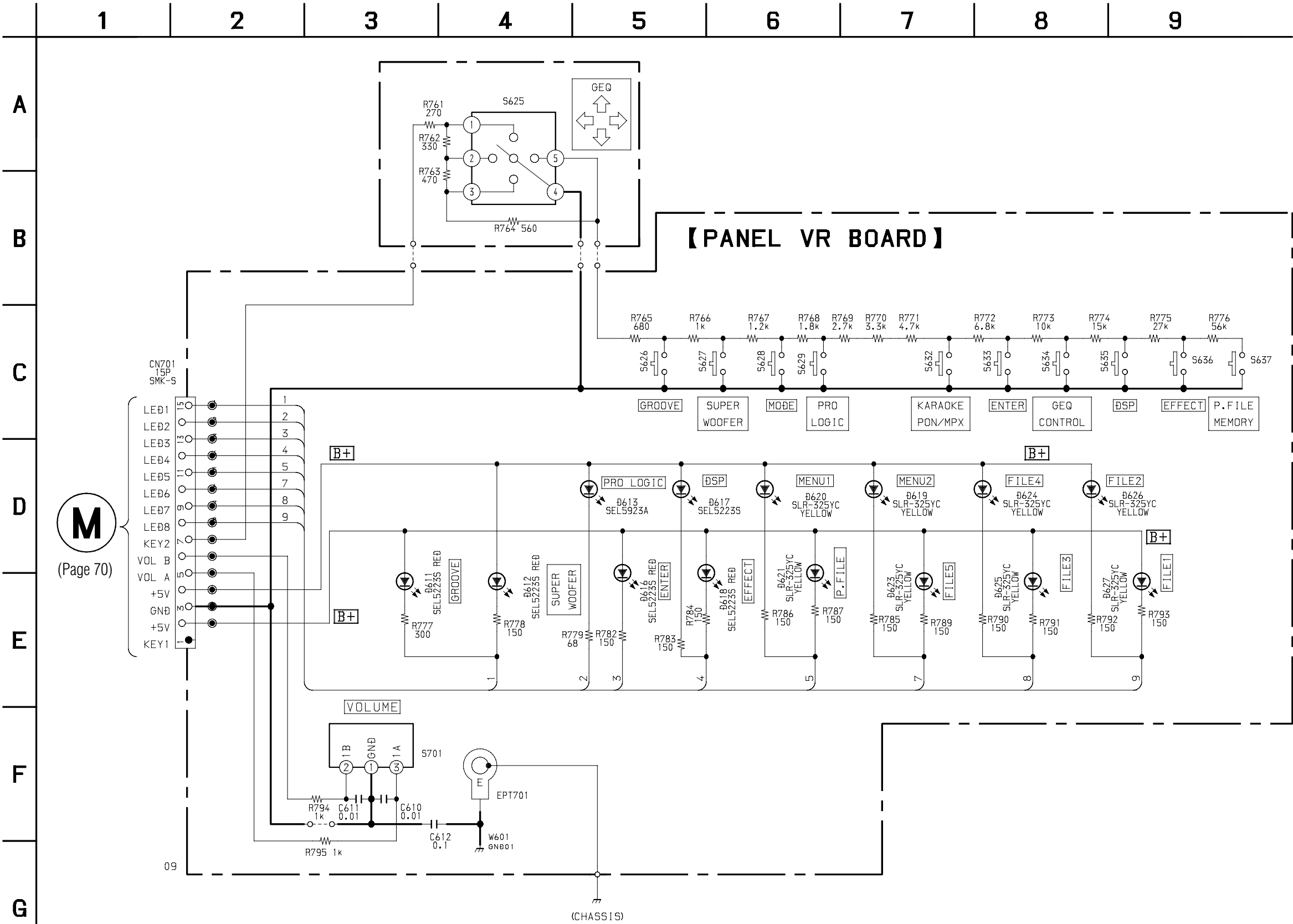
【PANEL FL BOARD】



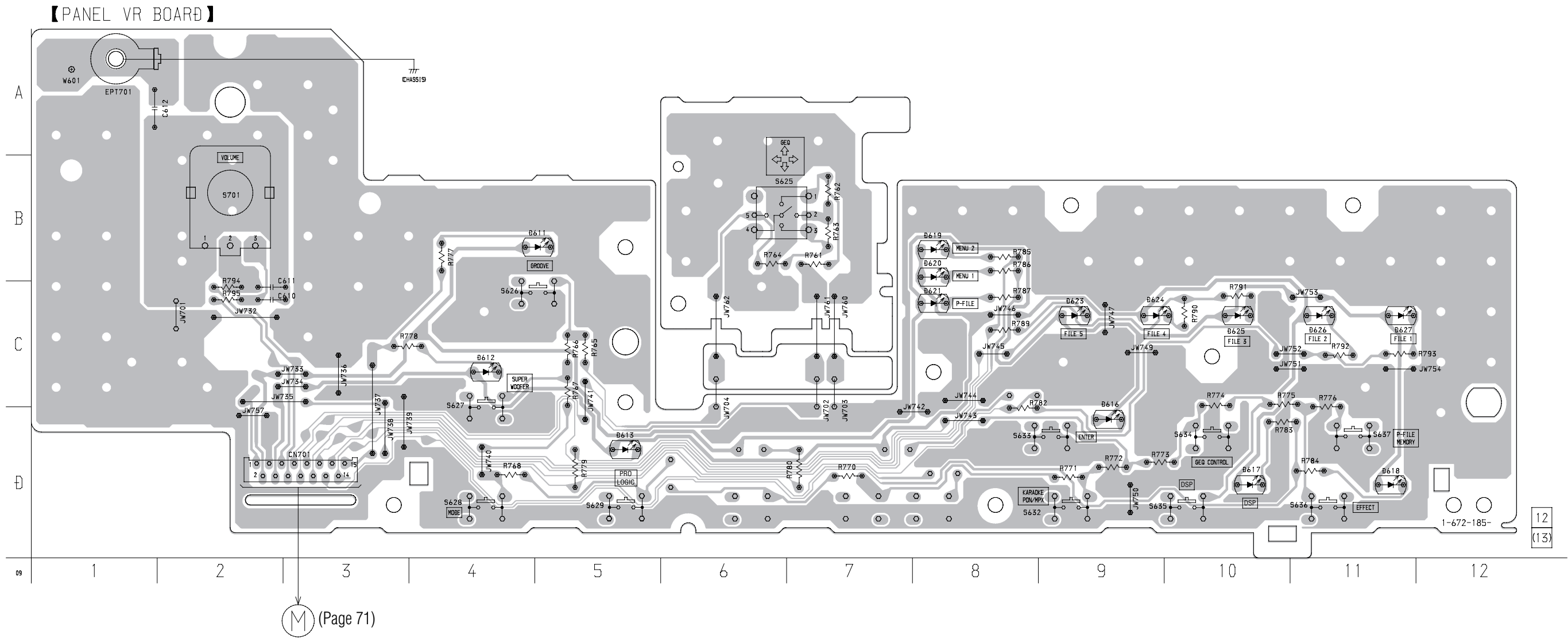
- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	
D601	A-13	IC604	E-4	
D602	C-13			
D603	C-13		Q601	D-2
D604	C-5		Q602	C-2
D605	D-6		Q603	D-2
D606	A-1		Q605	A-12
D607	A-3		Q606	E-13
D608	D-2		Q607	F-13
		Q608	D-10	
IC601	D-9	Q609	C-10	
IC602	C-4	Q610	C-9	
IC603	E-12			

7-21. SCHEMATIC DIAGRAM – PANEL VR SECTION –
• See page 103 for IC Block Diagrams.



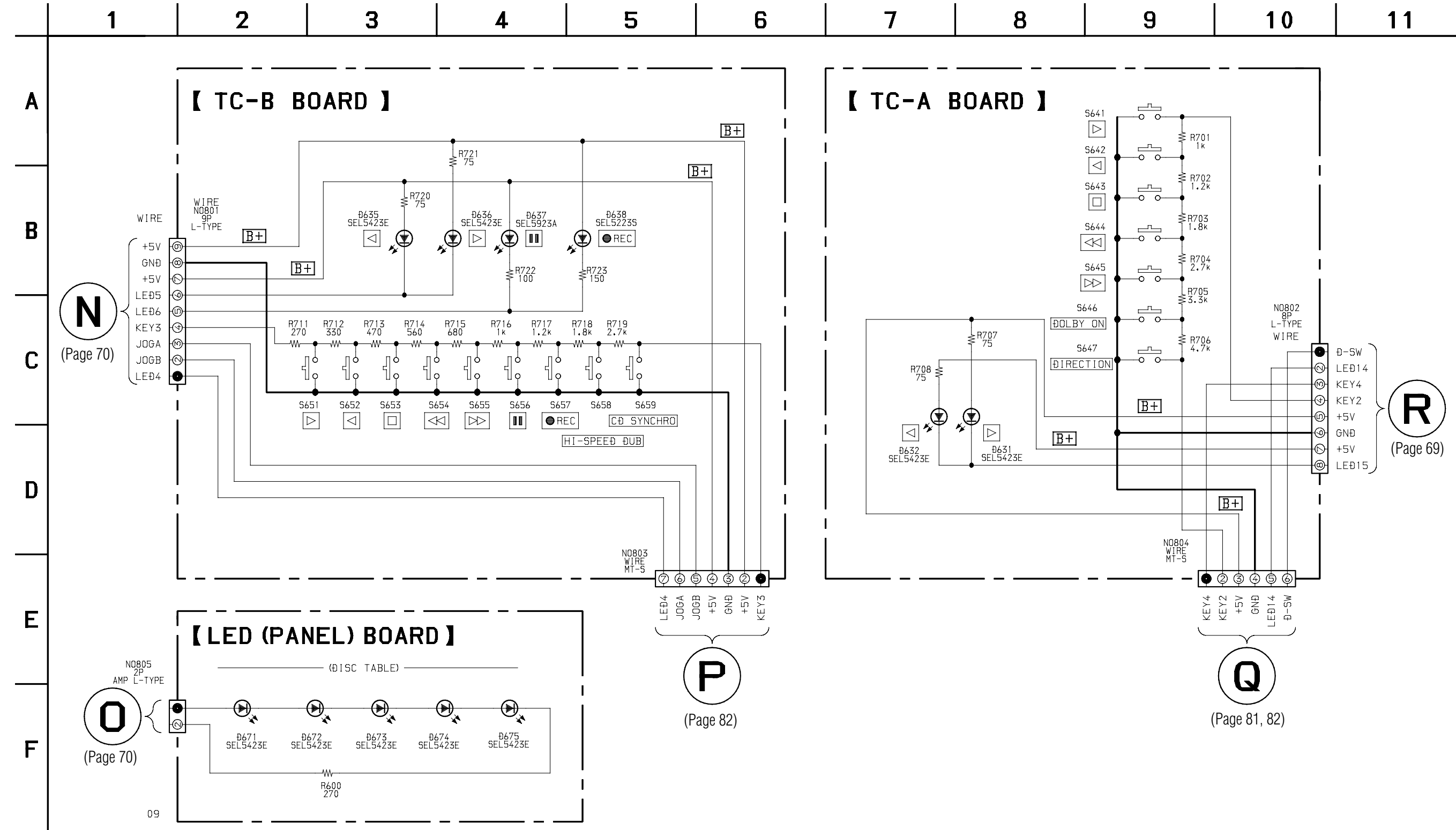
7-22. PRINTED WIRING BOARD – PANEL VR SECTION –
• See page 19 for Circuit Boards Location.

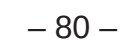
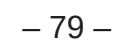


• Semiconductor Location

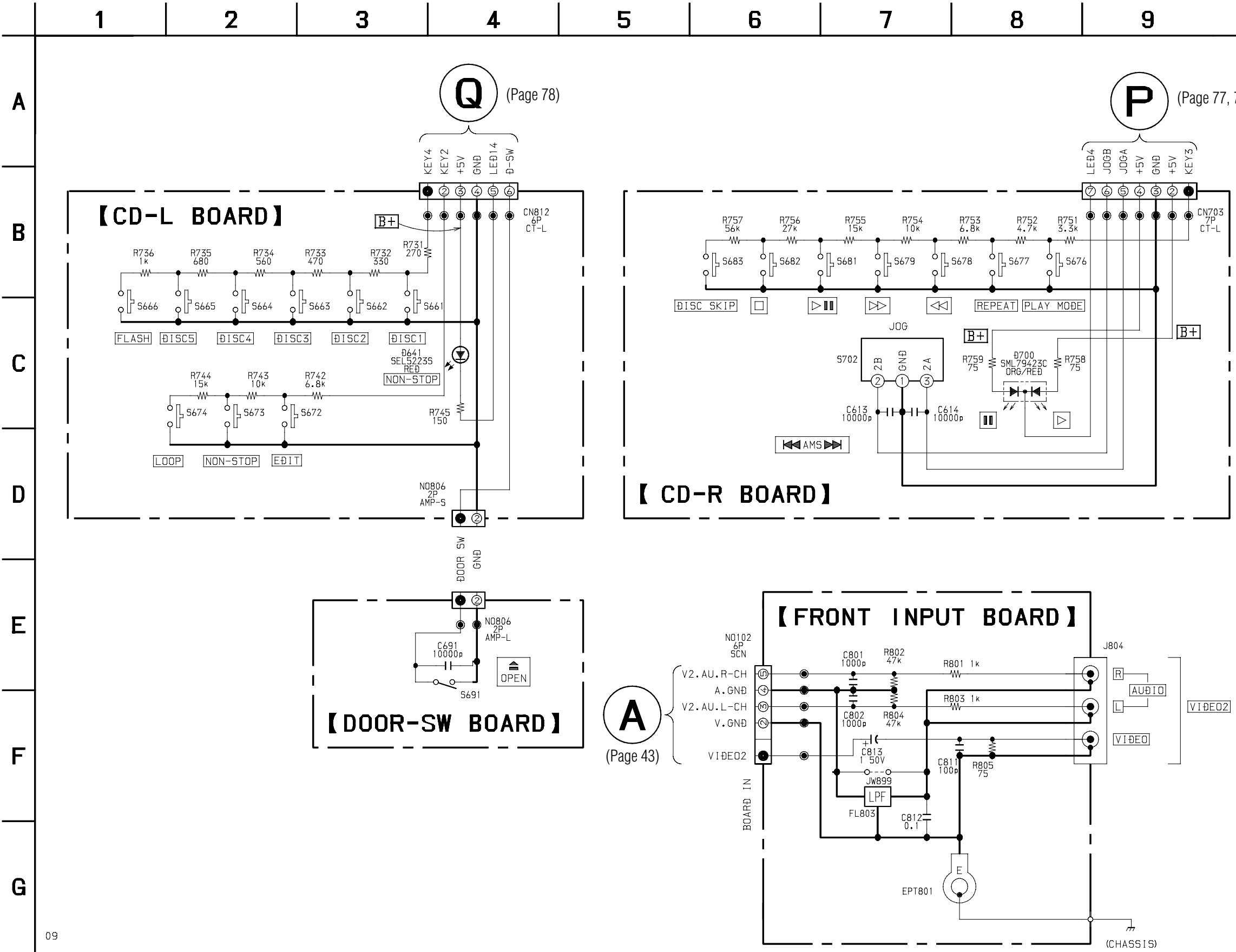
Ref. No.	Location
D611	B-5
D612	C-4
D613	D-5
D616	D-9
D617	D-10
D618	D-11
D619	B-8
D620	B-8
D621	C-8
D623	C-9
D624	C-9
D625	C-10
D626	C-11
D627	C-11

7-23. SCHEMATIC DIAGRAM – TC PANEL SECTION –



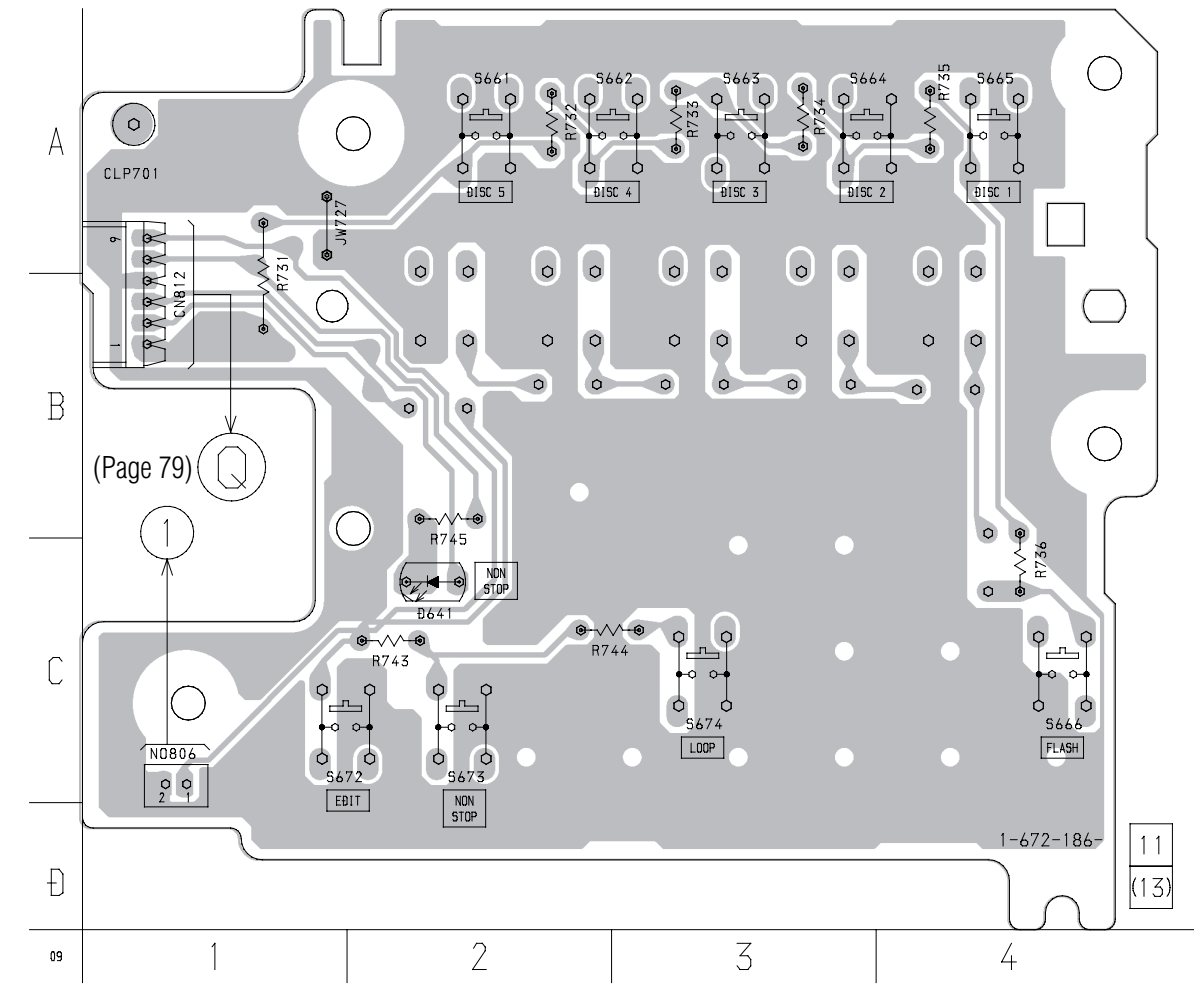


7-25. SCHEMATIC DIAGRAM – CD PANEL SECTION –

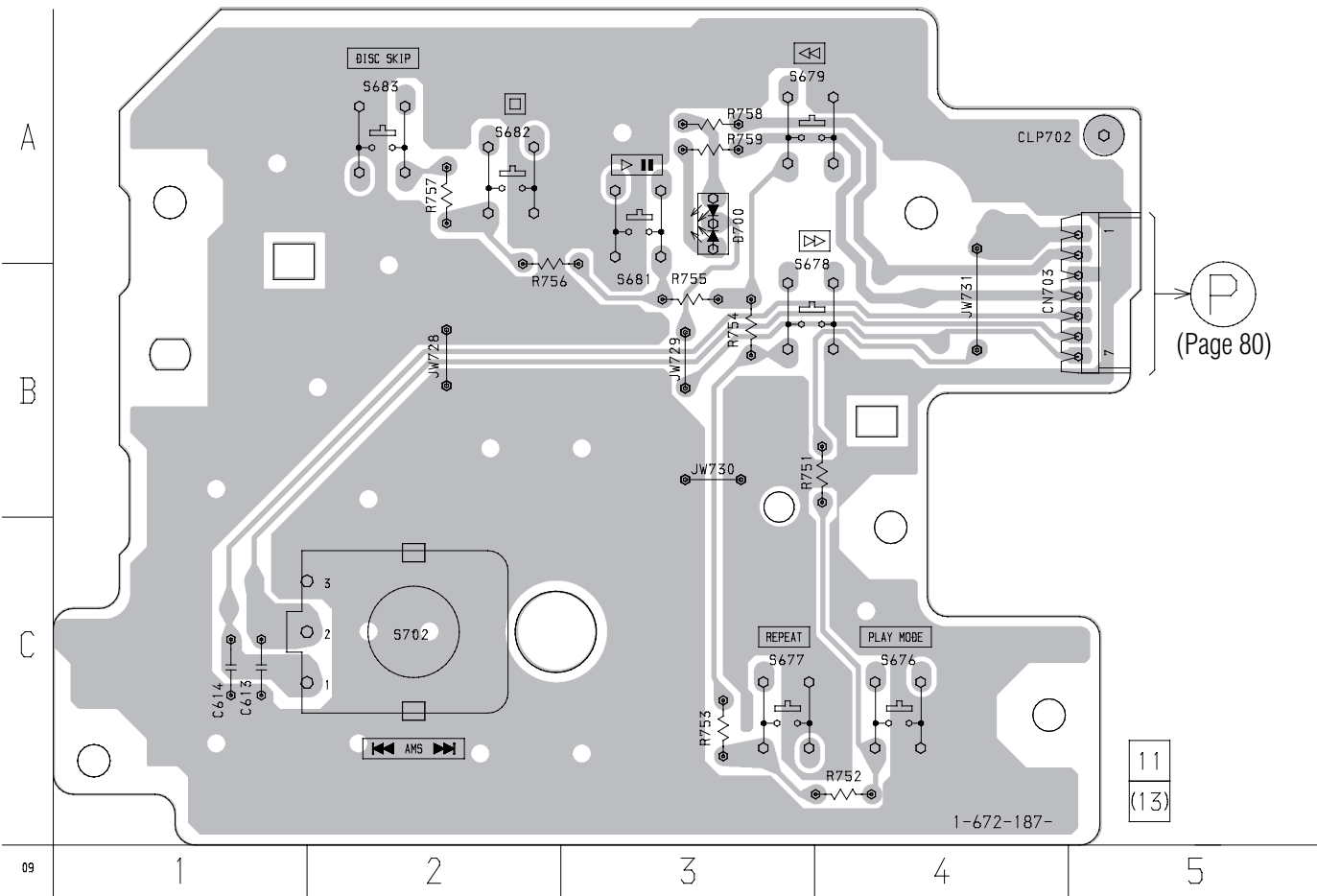


7-26. PRINTED WIRING BOARD – CD PANEL SECTION –
• See page 19 for Circuit Boards Location.

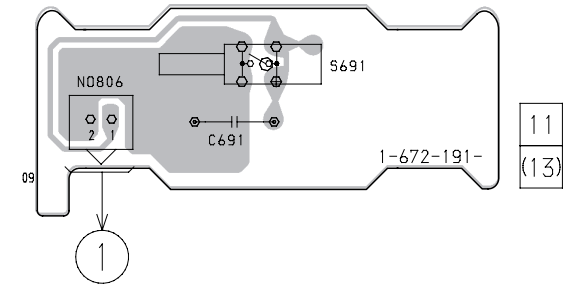
【 CD-L BOARD 】



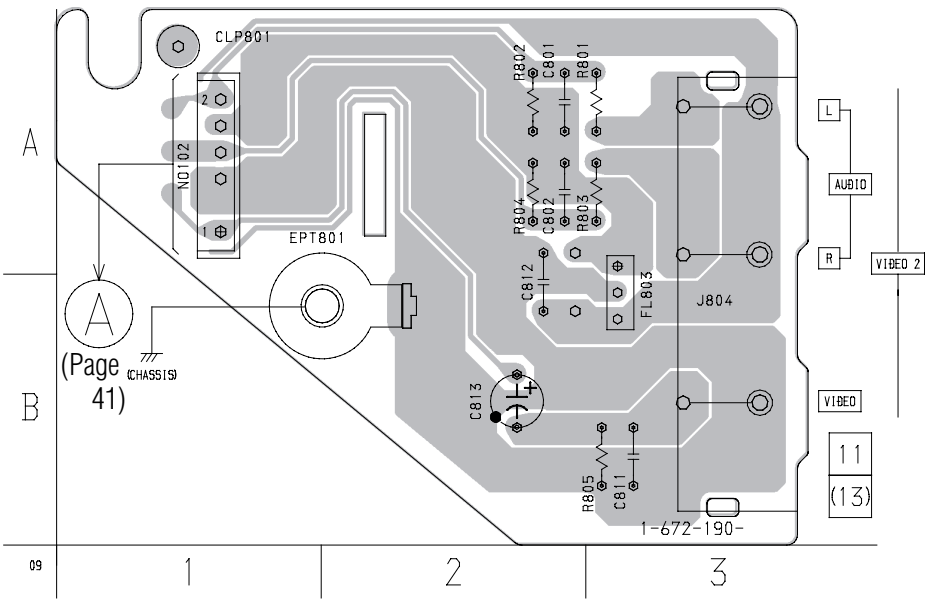
【 CD-R BOARD 】



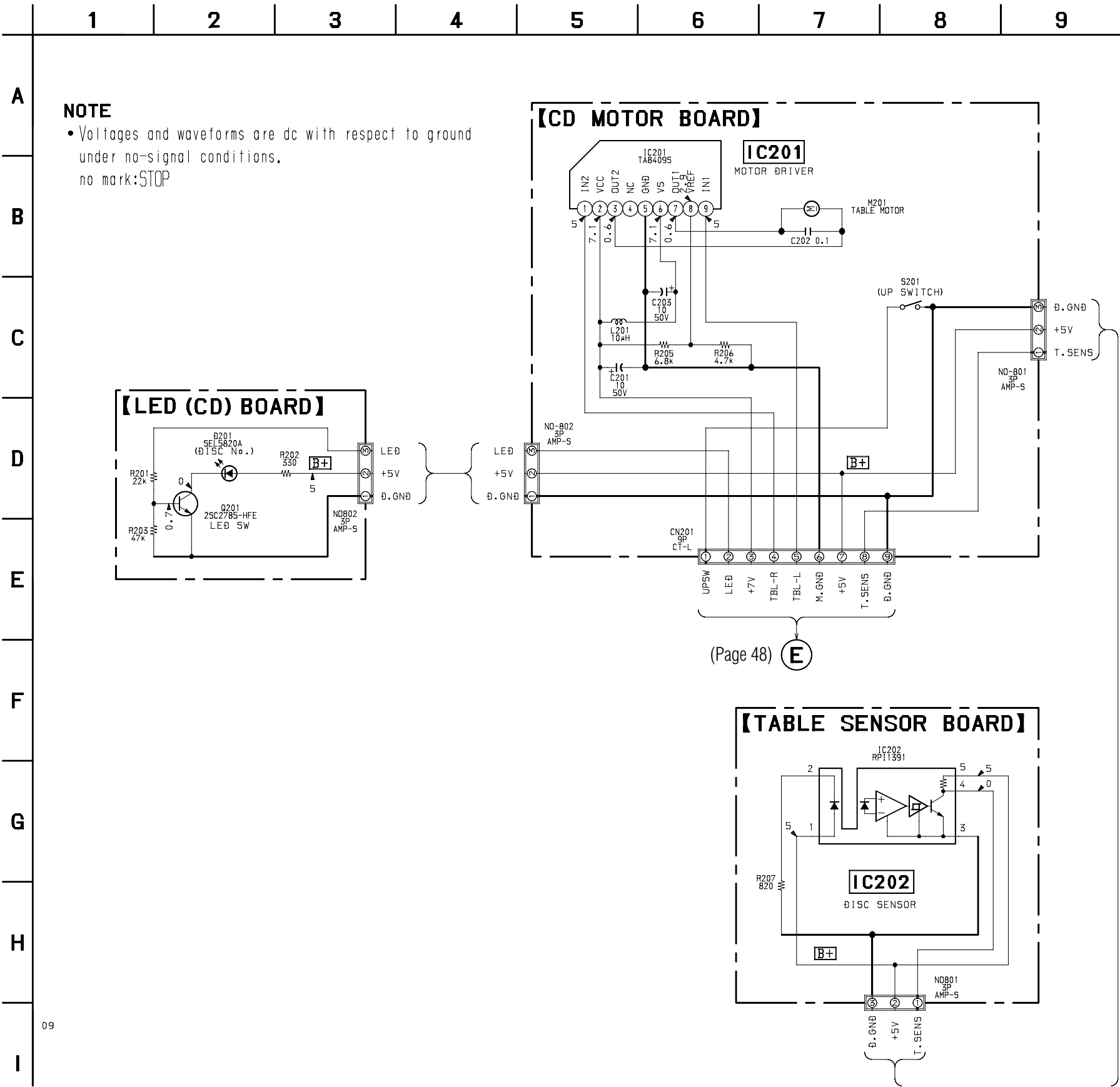
【 DOOR-SW BOARD 】



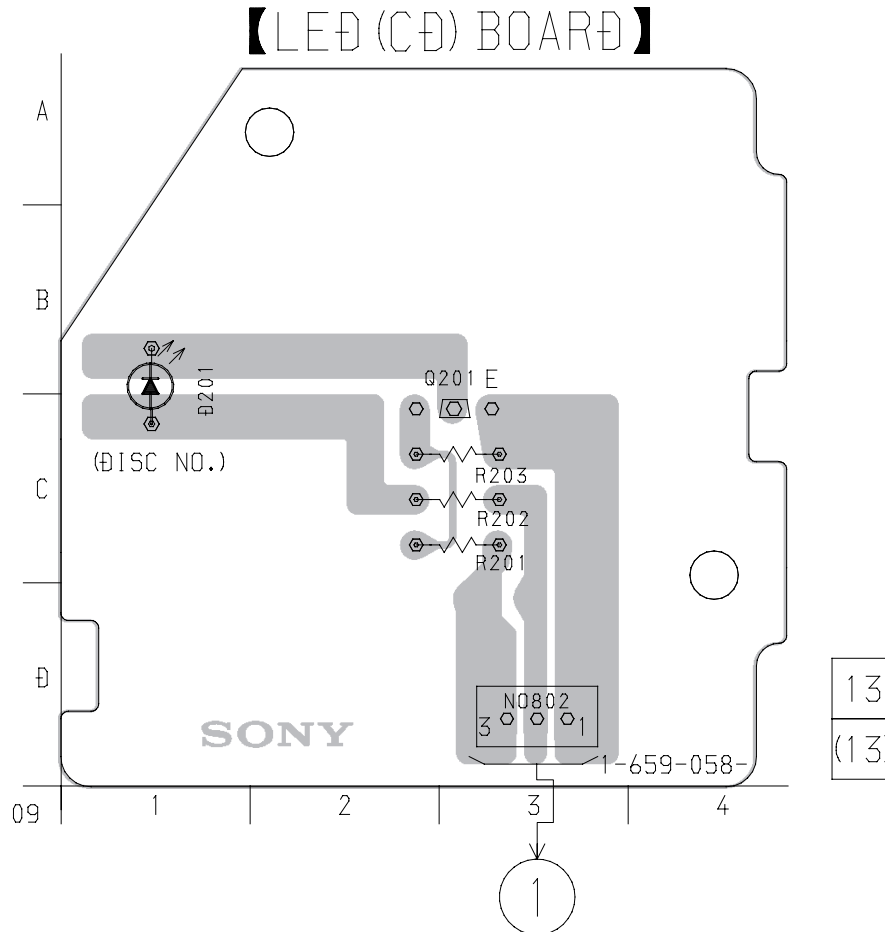
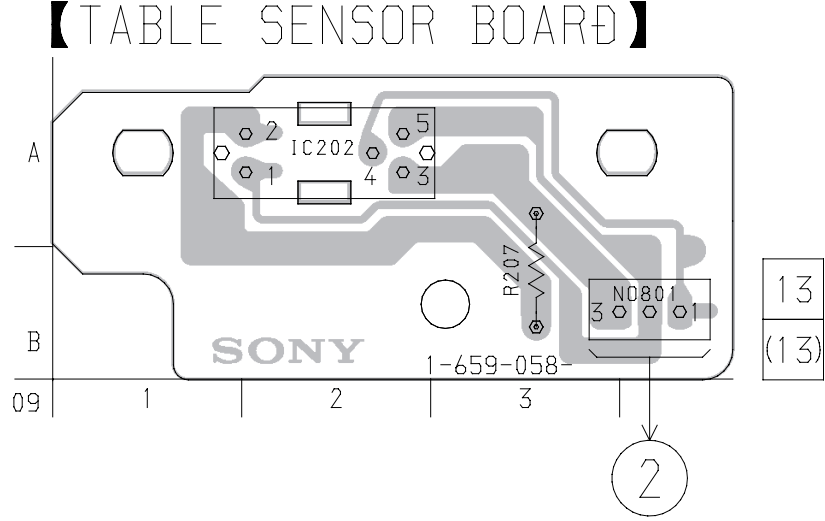
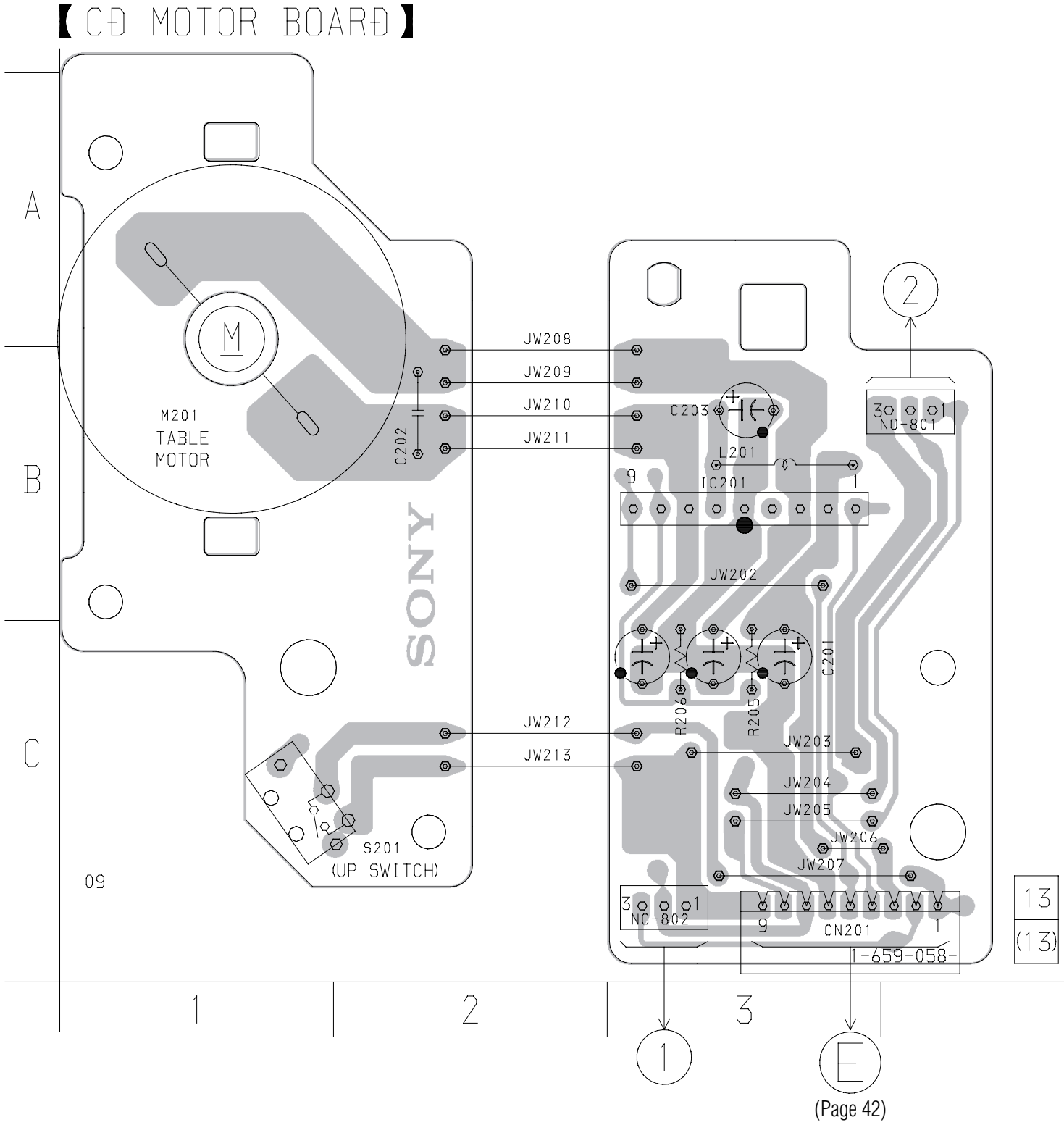
【 FRONT INPUT BOARD 】



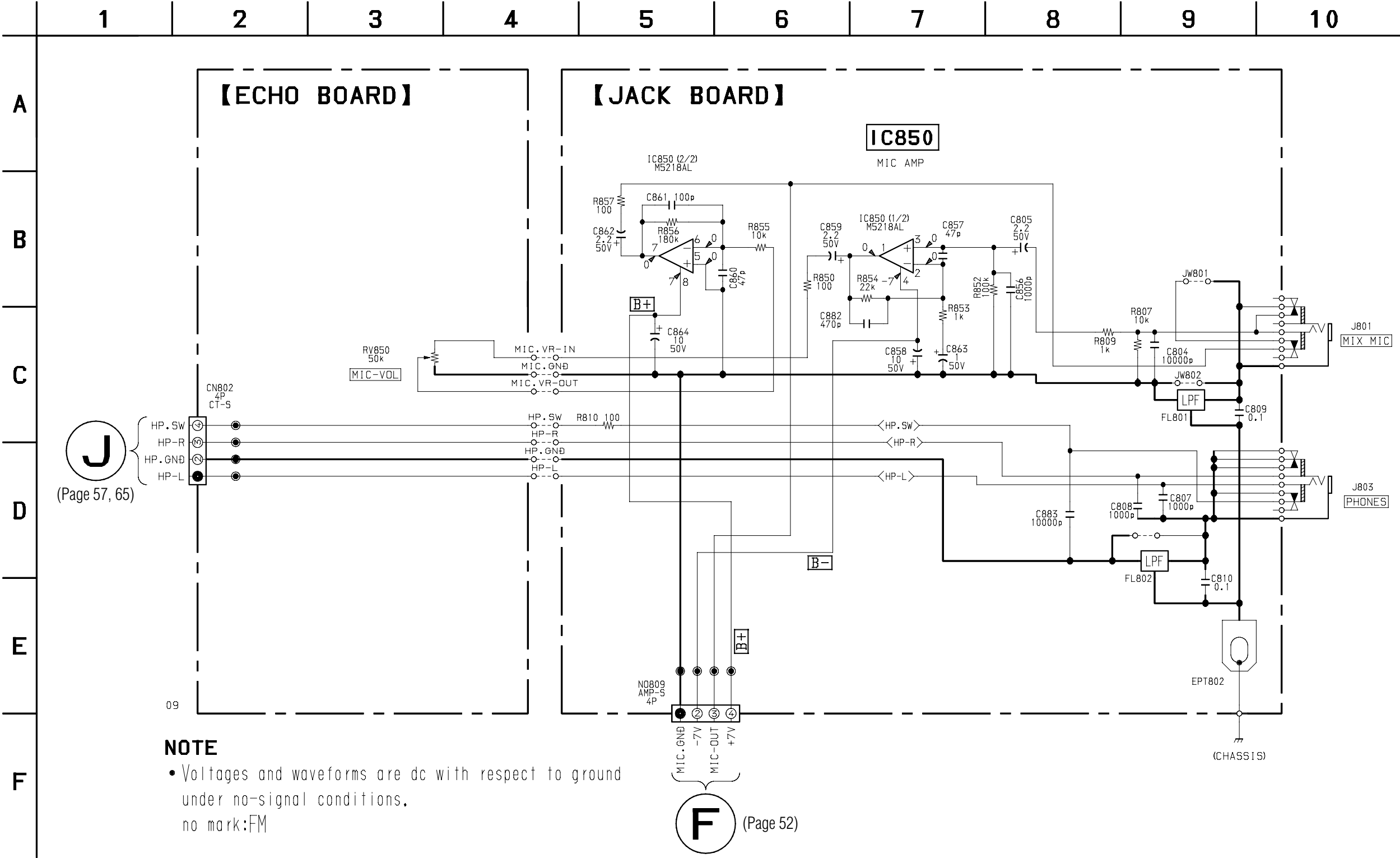
7-27. SCHEMATIC DIAGRAM – CD MOTOR SECTION –



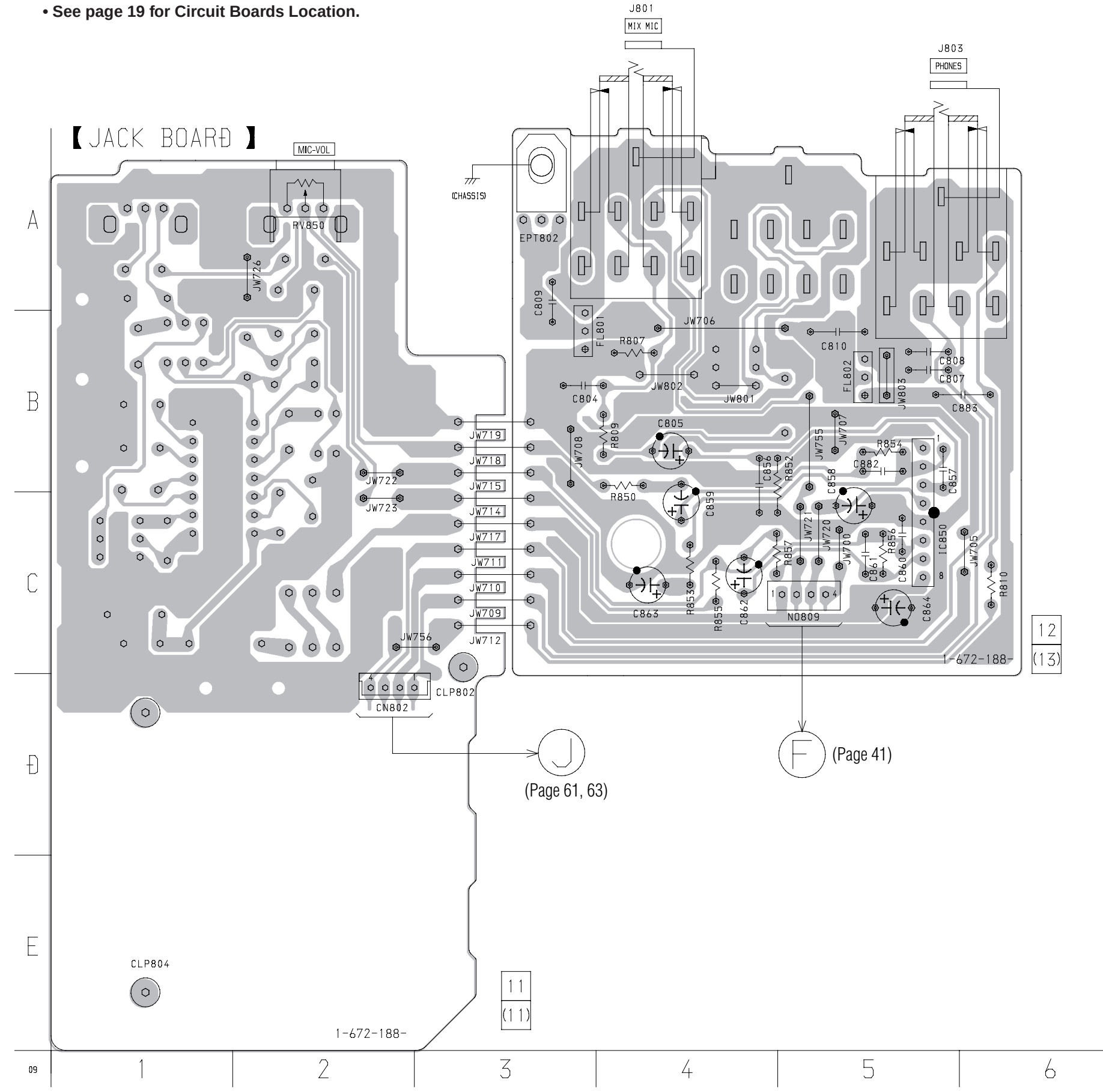
7-28. PRINTED WIRING BOARD – CD MOTOR SECTION –
• See page 19 for Circuit Boards Location.



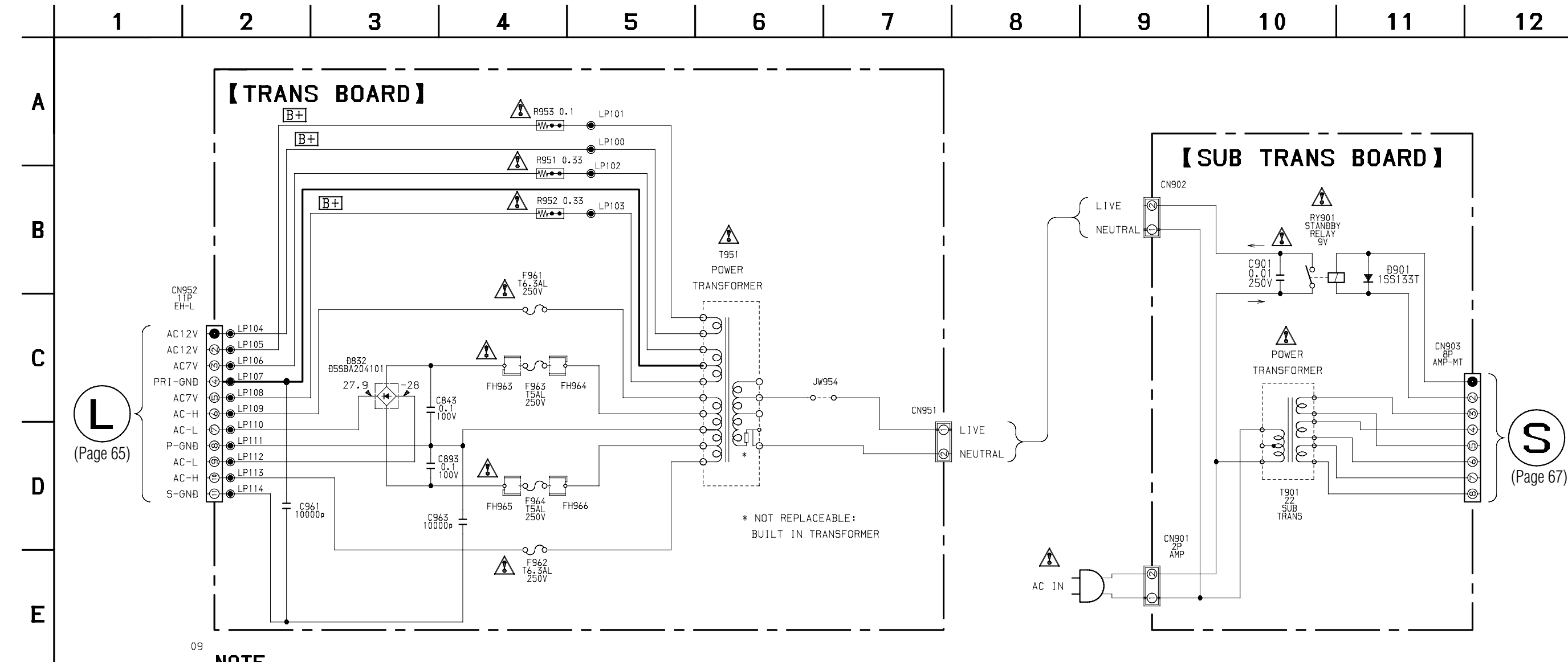
7-29. SCHEMATIC DIAGRAM – JACK SECTION –



7-30. PRINTED WIRING BOARD – JACK SECTION –
• See page 19 for Circuit Boards Location.



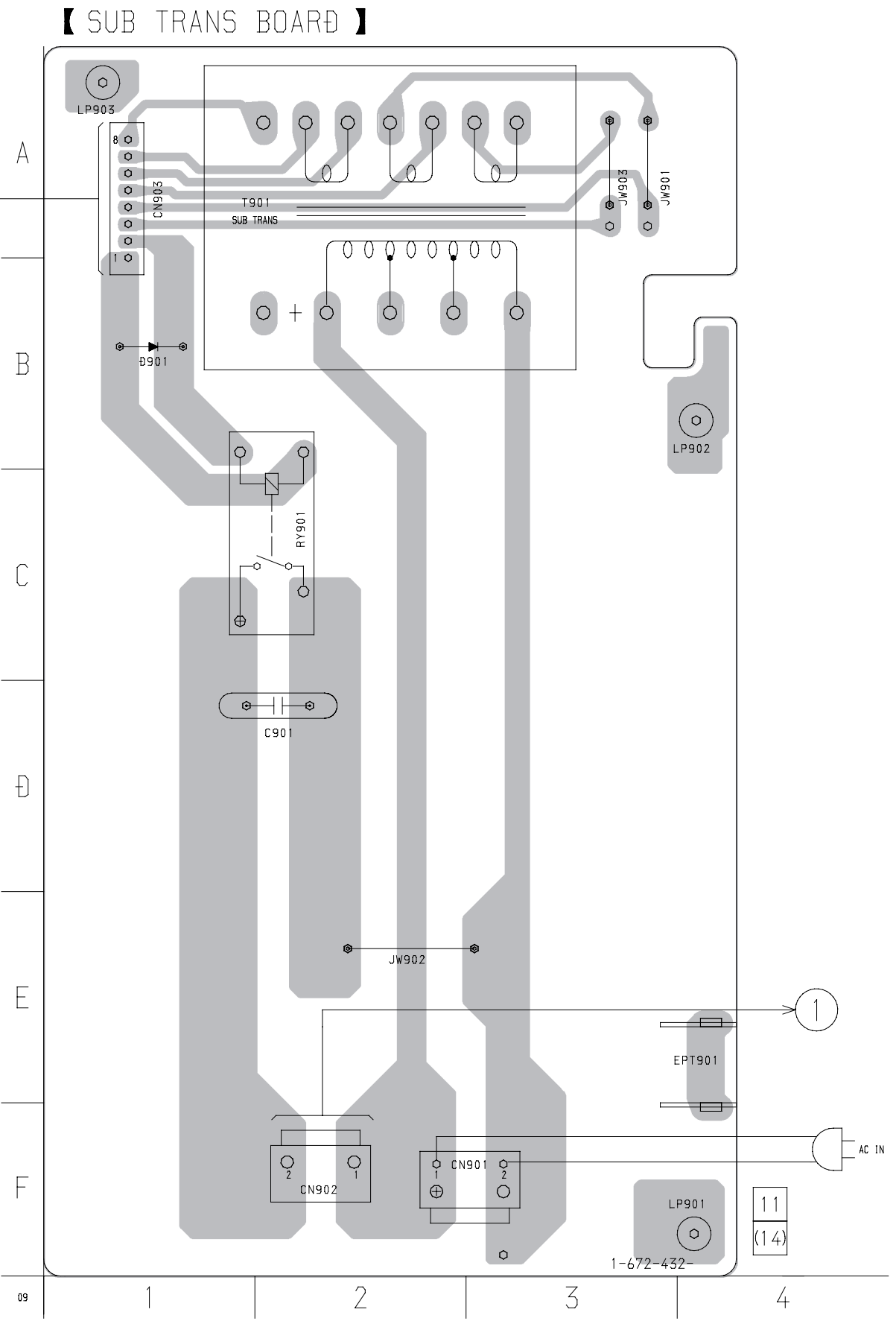
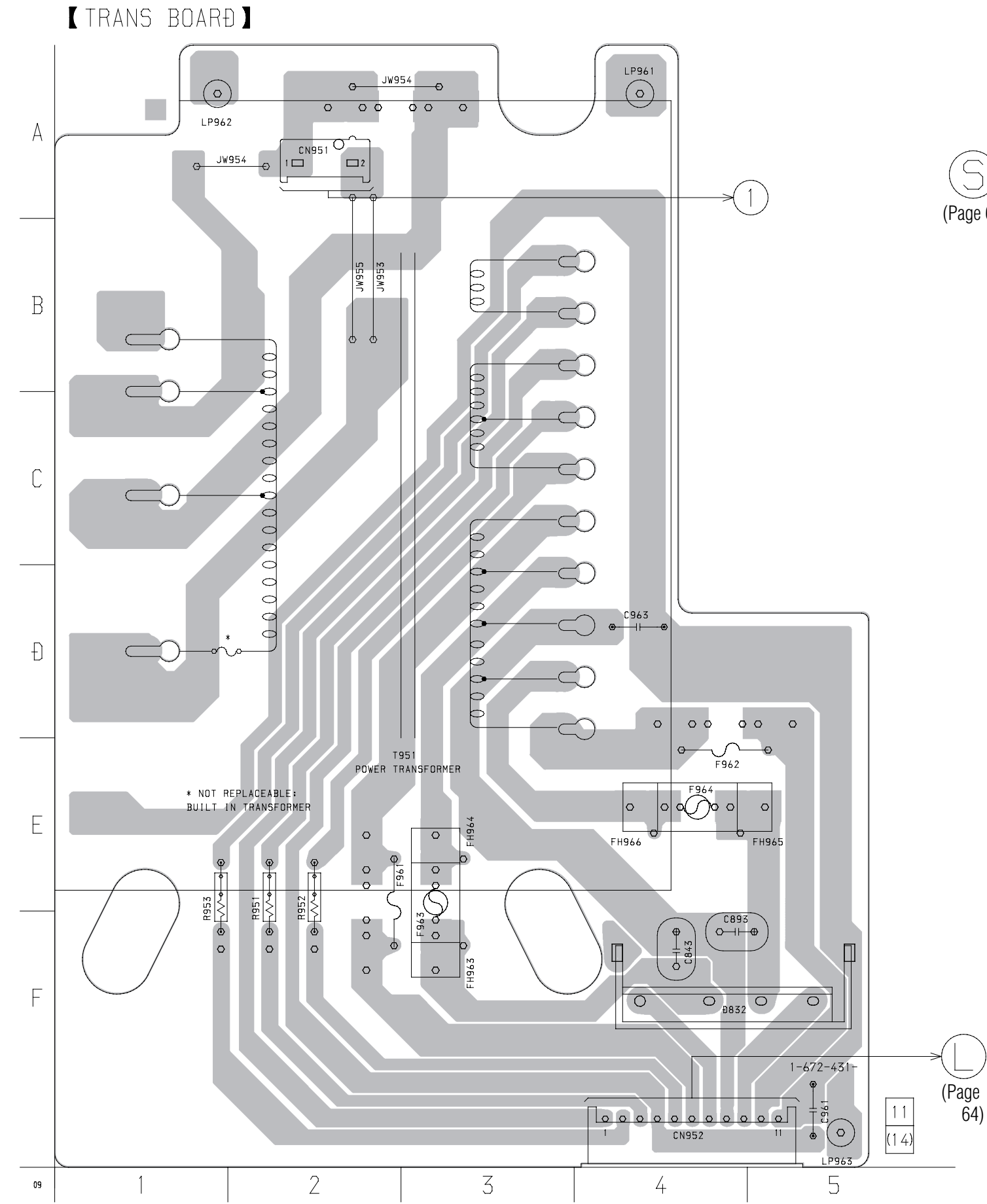
7-31. SCHEMATIC DIAGRAM – TRANS SECTION – (XB800AV model)



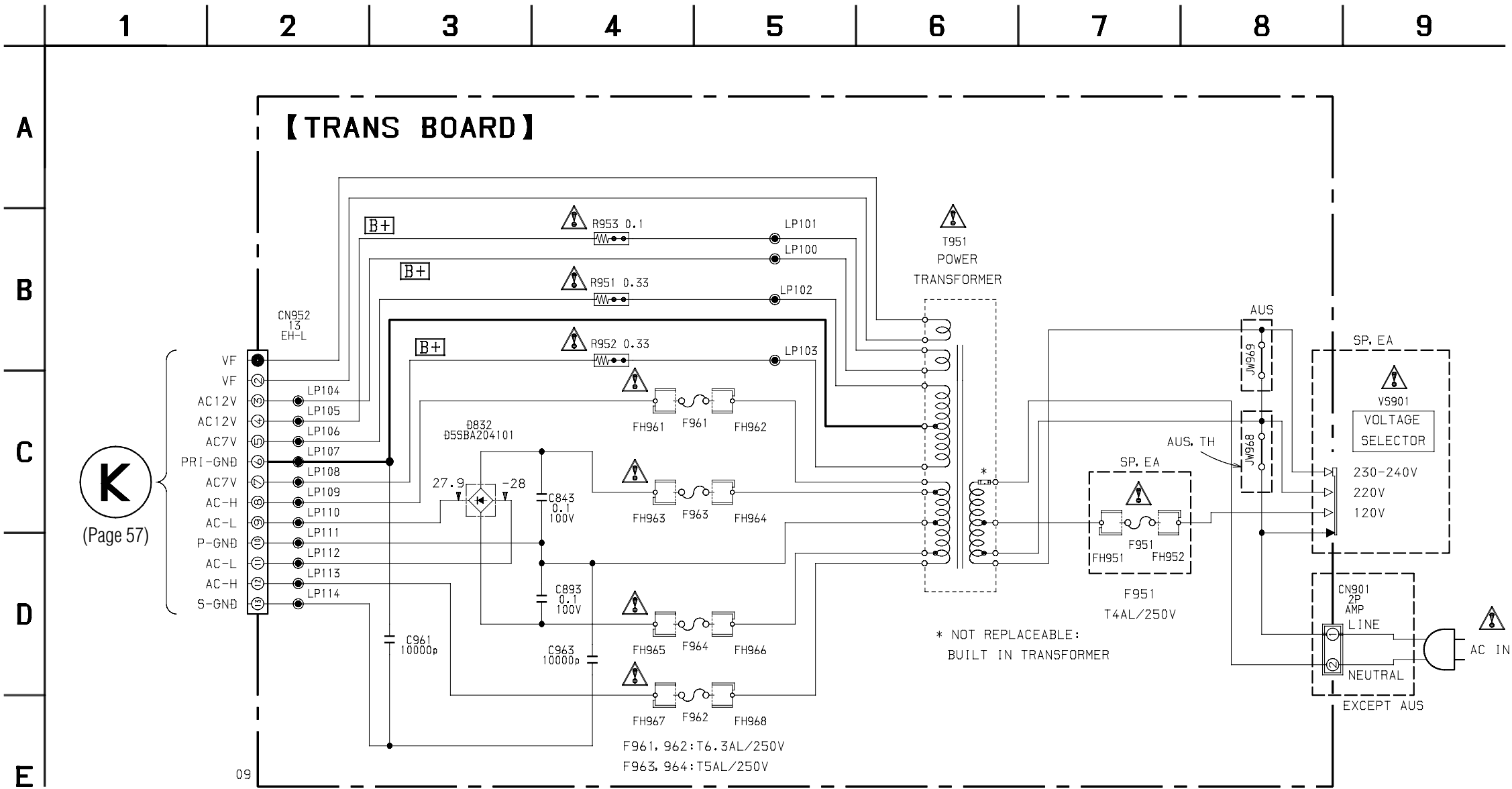
NOTE

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark:FM

7-32. PRINTED WIRING BOARD – TRANS SECTION – (XB800AV model)
• See page 19 for Circuit Boards Location.



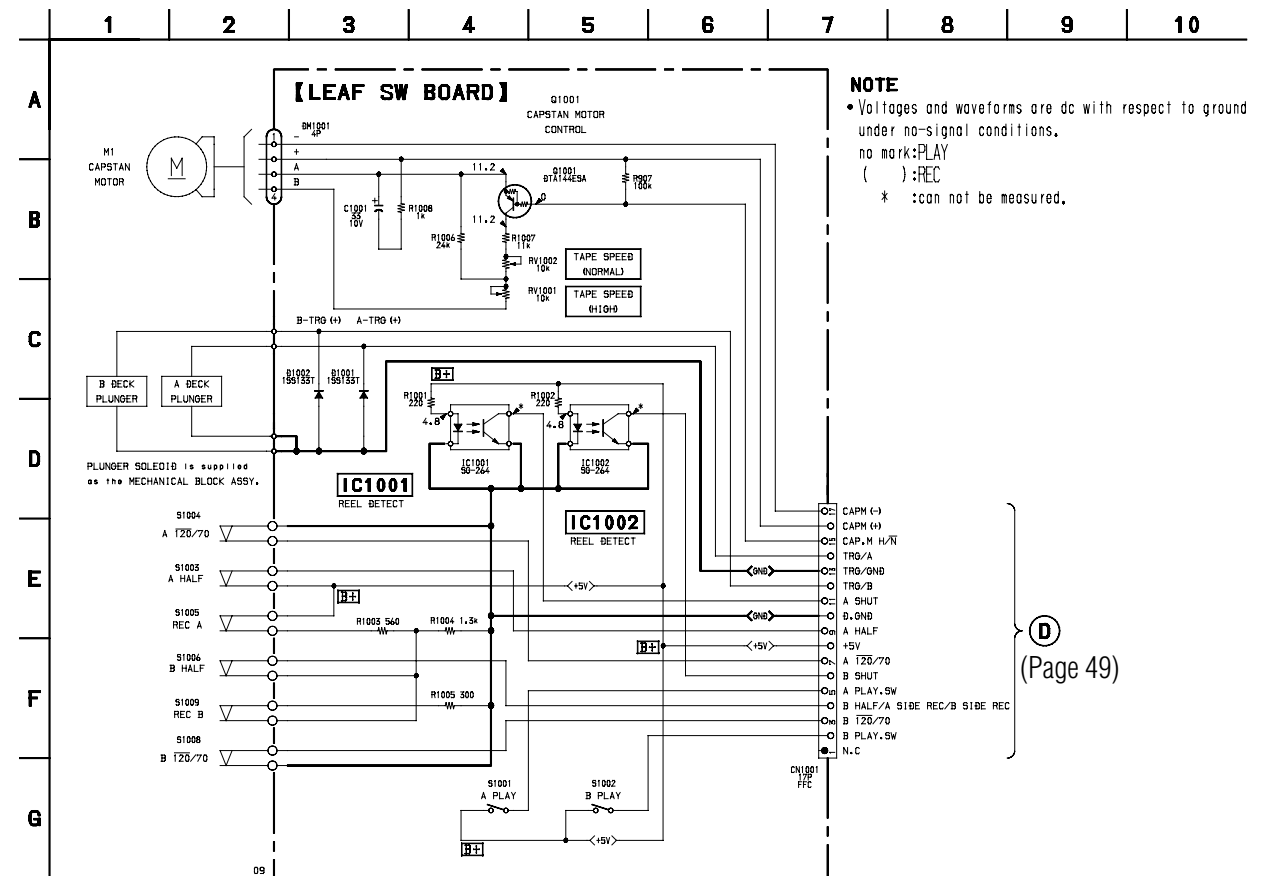
7-33. SCHEMATIC DIAGRAM – TRANS SECTION – (DR7AV model)



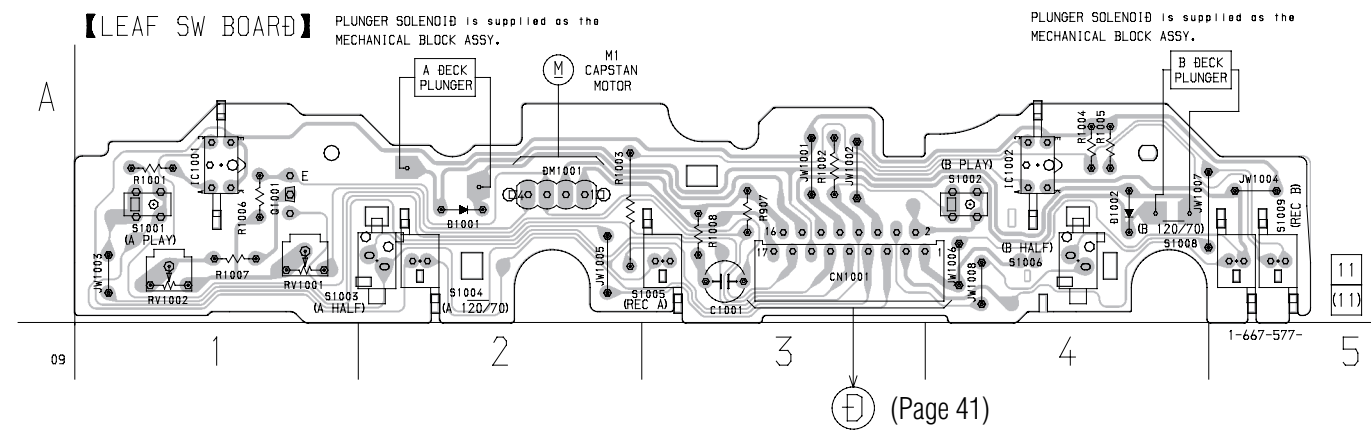
NOTE

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark:FM

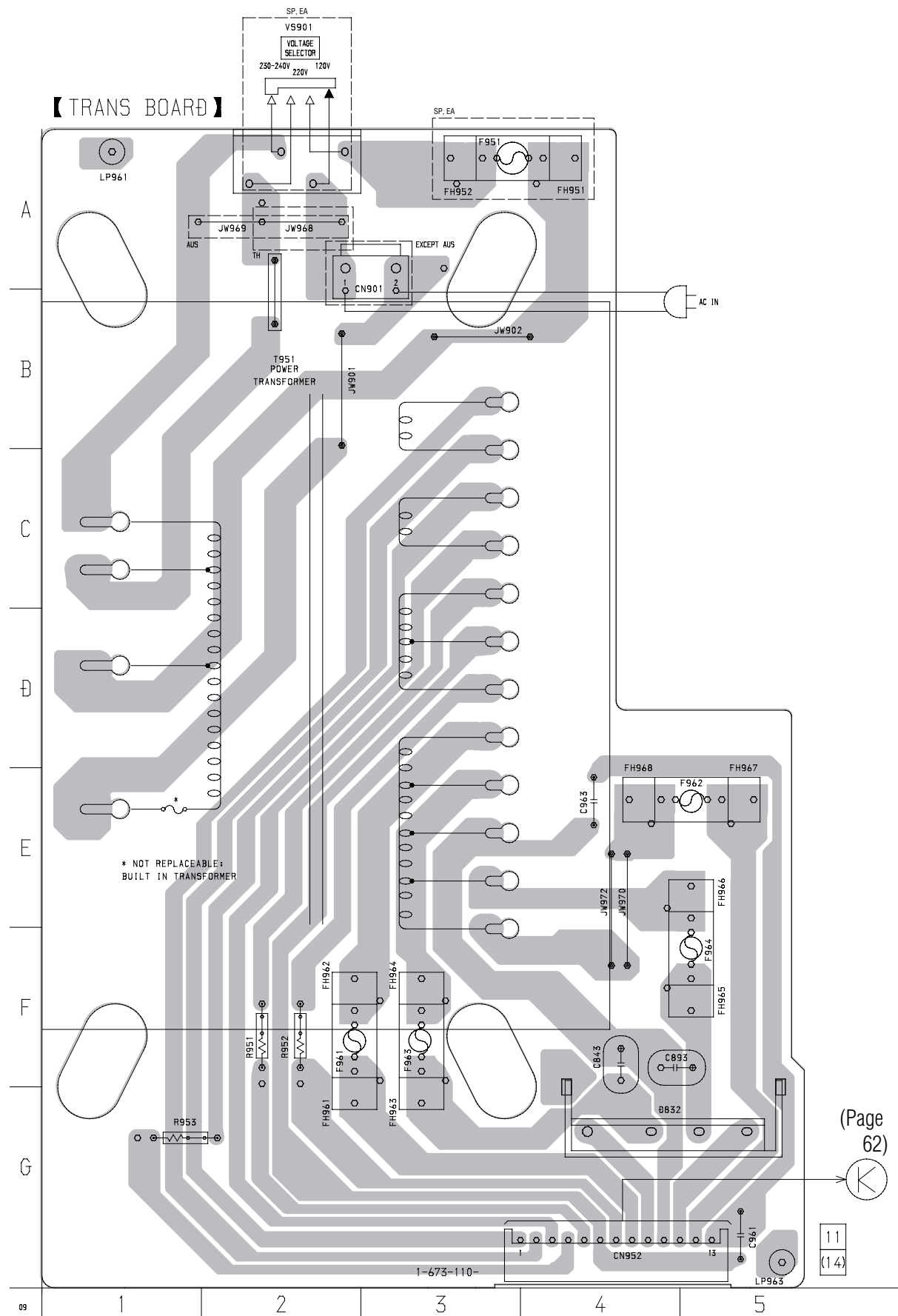
7-35. SCHEMATIC DIAGRAM – LEAF SW SECTION –



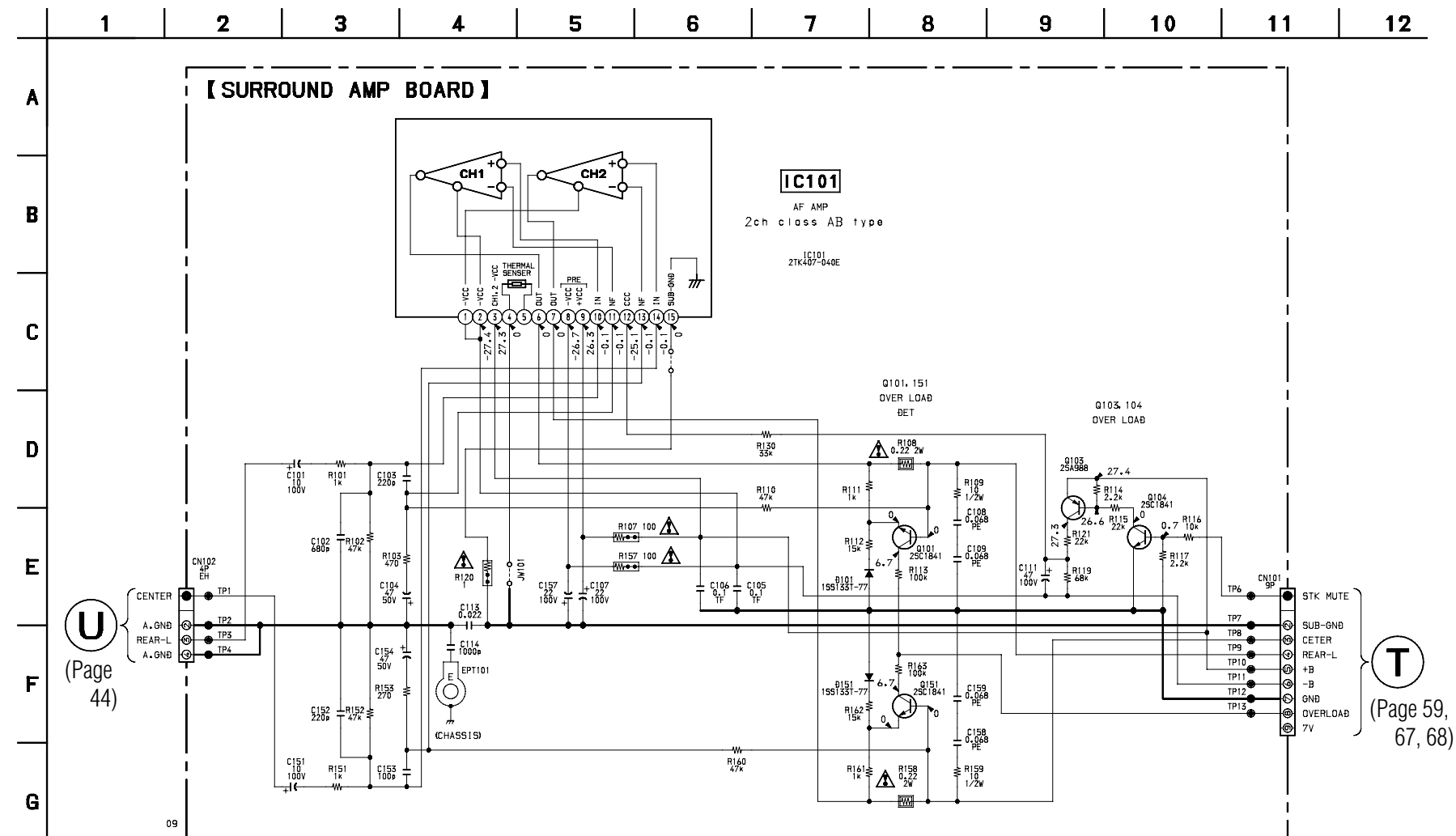
7-36. PRINTED WIRING BOARD – LEAF SW SECTION –
 • See page 19 for Circuit Boards Location.



7-34. PRINTED WIRING BOARD – TRANS SECTION – (DR7AV model)
• See page 19 for Circuit Boards Location.

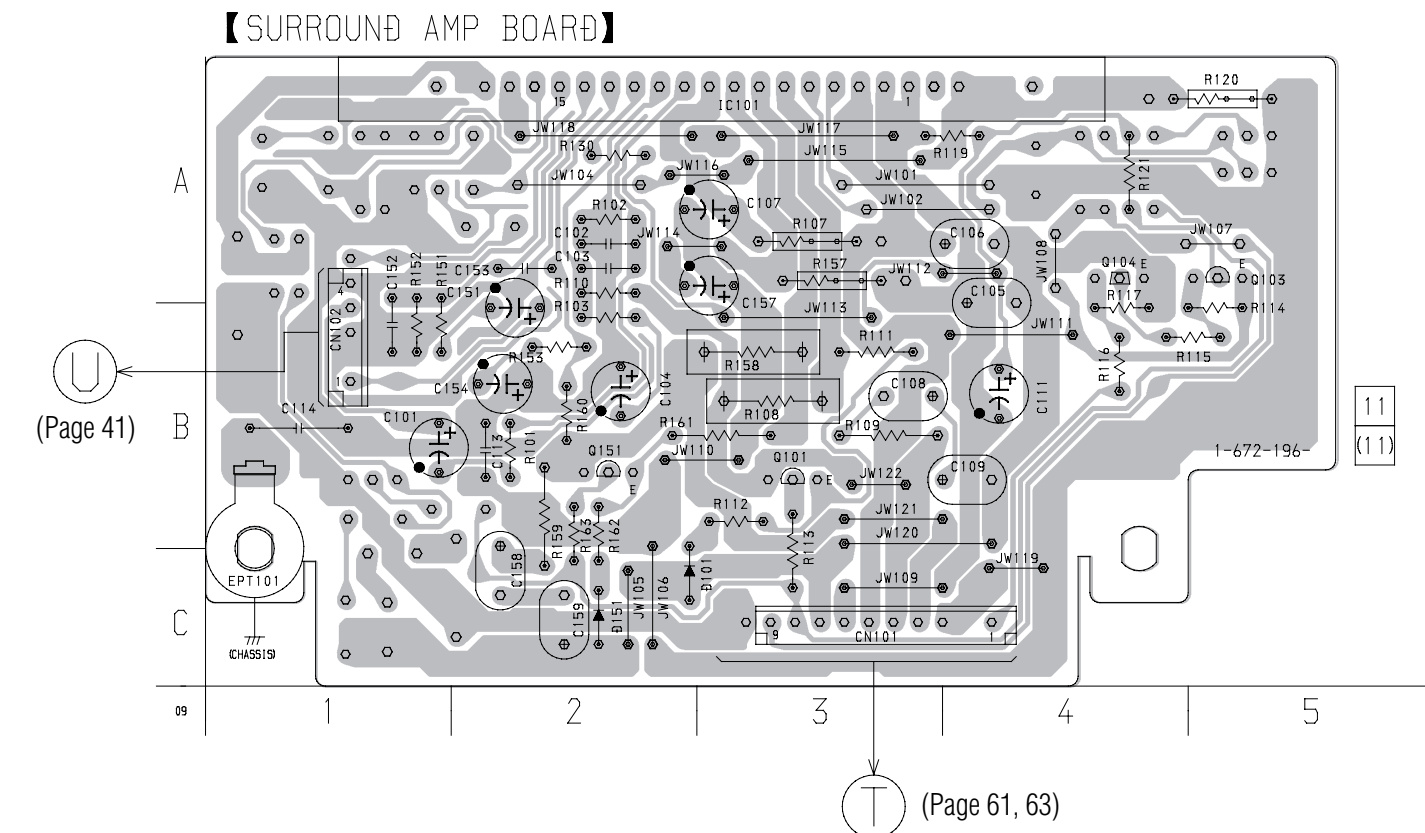


7-37. SCHEMATIC DIAGRAM – SURROUND SECTION –



7-38. PRINTED WIRING BOARD – SURROUND SECTION –

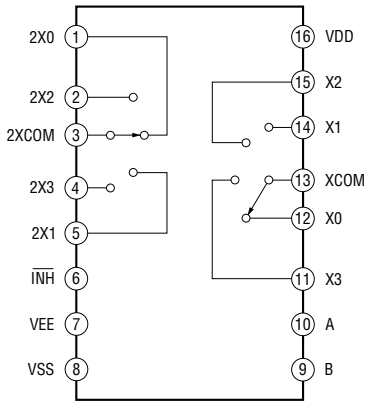
- See page 19 for Circuit Boards Location.



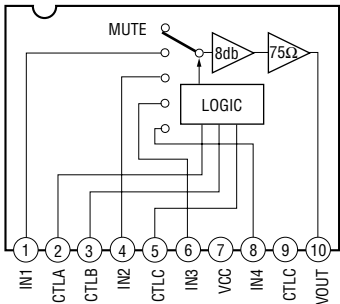
7-39. IC BLOCK DIAGRAMS

• MAIN (1/5) section

IC181 MC14052BF

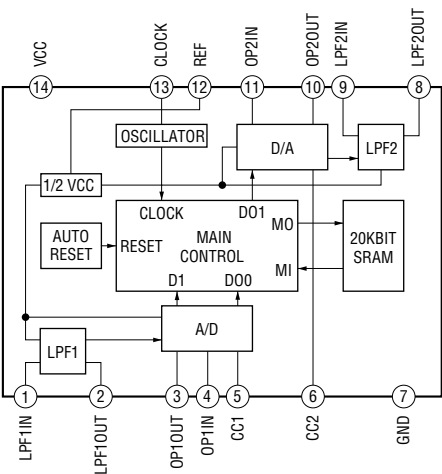


IC191 BA7615N



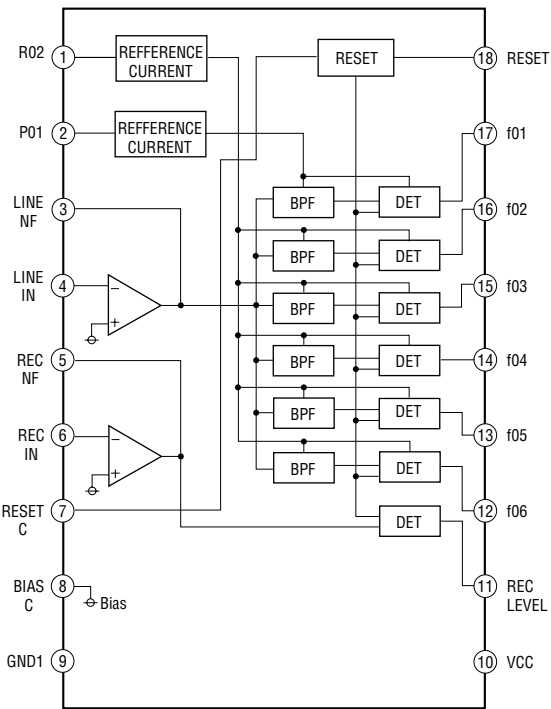
• PANEL VR section

IC851 M65850P

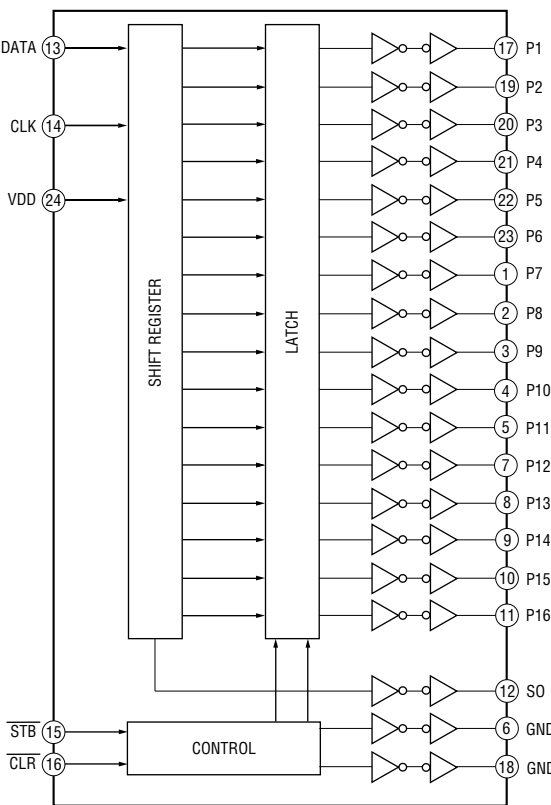


• PANEL FL section

IC603 BA3830F



IC604 NJU3716L



7-40. IC PIN FUNCTIONS

• IC501 MAIN CONTROL (M30622MA-A08FP) (MAIN board)

Pin No.	Pin Name	I/O	Function
1	POWER	O	Power amp ON/OFF signal output
2	POWER	O	Power ON/OFF signal output
3	F-RELAY	O	Front speaker relay control output
4	REAR-RELAY	O	Rear speaker relay control output (Not used)
5	CD-POWER	O	CD power on signal output
6	LINE-MUTE	O	Line mute signal output
7	DBFB-H/L	O	DBFB H/L select signal output
8	–	–	Connected to ground
9	–	–	Connected to ground
10	XC-IN	I	X'tal (32.768 KHz) (SUB CLOCK)
11	XC-OUT	O	
12	RESET	I	System reset signal input
13	X-OUT	O	X'tal (16MHz) (MAIN SYSTEM CLOCK)
14	VSS	–	Ground
15	X-IN	I	X'tal (16MHz) (MAIN SYSTEM CLOCK)
16	VDD	–	Power supply (+5V)
17	NMI	I	Not used
18	WAKE UP	I	WAKE UP signal input
19	SCOR	I	CD Q-data request signal input
20	RDS-INT	I	RDS data interrupt input
21	RDS-DATA	I	RDS data interrupt input
22	AC-CUT	I	AC cut ON (L)/OFF (H) check
23	PL-CLK	O	Clock output to pro-logic (Not used)
24	PL-DATA	O	Data output to pro-logic (Not used)
25	PL-LAT	O	Latch signal output to pro-logic (Not used)
26	TIMER LED	O	Not used
27	PROTECT	I	Speaker protect signal input
28	V MUTE	O	Video mute signal output
29	IIC-CLK	O	I ² C SCL
30	IIC-DATA	O	I ² C SDA
31	–	–	Not used
32	SQ-DATA	I	Subcode Q data clock input (CD data)
33	SQ-CLK	I	Subcode Q data clock input (CD data clock)
34	SW-MODE	O	SW-MODE music/movie select signal output
35	CD-DATA	O	CD data output
36	H/P IN	I	Head phone detect
37	CD-CLK	O	CD clock output
38	493-LAT	O	Latch signal output for IC101 (M62493FP)
39	CLOCK-OUT	O	Clock out signal check
40	NO-USE	–	Not used
41	NO-USE	–	Not used
42	FL OFF	O	Fluorescent indicator tube filament on/off signal output
43	STBY RELAY	O	Main POWER on/off signal output
44	BASS FREQ	O	FREQ high/low signal output (Not used)
45	FUNC SEL 1	O	Function select signal output
46	FUNC SEL 0	O	Function select signal output
47	493-DATA	O	Data signal output for IC101 (M62493FP)
48	493-CLK	O	Clock signal output for IC101 (M62493FP)
49	ST-MUTE	O	Tuner mute signal output

Pin No.	Pin Name	I/O	Function
50	STEREO	I	Stereo detection for tuner
51	TUNED	I	Tuned detection for tuner
52	ST-CE	O	Tuner chip enable output
53	ST-DOUT	O	Tuner data output
54	ST-DIN	I	Tuner data input
55	ST-CLK	O	Tuner clock output
56	SENS	I	BD Condition signal input
57	HOLD	O	MODE signal output
58	XLT	O	CD latch signal output
59	XRST	O	CD reset signal output
60	DISC-SENS	I	Slit sensor of disc table input (Connected to ground)
61	T-SENS	I	CD table detection signal input
62	VDD	–	Power supply (+5V)
63	TBL-L	O	Table motor control output
64	VSS	I	Ground
65	TBL-R	O	Table motor control output
66	LOAD-OUT	O	Loading motor control signal output (Not used)
67	LOAD-IN	O	
68	ENC 3/UP-SW	I	Disc tray address detect encoder input
69	ENC 2/DISC-LED	I	
70	ENC 1	I	(Connected to ground)
71	OUT-OPEN	O	(Connected to ground) Loading out detection signal output
72	B-TRG	O	B deck trigger motor control output
73	A-TRG	O	A deck trigger motor control output
74	CAP-M-COT2	O	Capstan motor REW/FWD/STOP signal output
75	CAP-M-COT1	O	Capstan motor REW/FWD/STOP signal output
76	CAP-M-H/L	O	Capstan motor High/Low speed select signal output
77	AMS-IN	I	AMS signal input
78	TC-MUTE	O	TC line mute ON/OFF selection output
79	R/PB/PAS	O	REC/PB/PASS selection output
80	NR-ON/OFF	O	DOLBY NR ON/OFF signal output
81	REC-MUTE	O	REC mute ON/OFF selection output
82	BIAS	O	Bias ON/OFF signal output
83	EQ-H/N	O	Equalizer High/Normal select output
84	PB-A/B	O	PB A deck/B deck select output
85	ALC	O	ALC ON/OFF output signal
86	B-PLAY-SW	I	B deck play detect
87	A-PLAY-SW	I	A deck play detect
88	A-HALF	I	A Deck half detector signal input
89	B-HALF	I	B Deck half detector signal input
90	B-SHUT	I	B Deck reel pulse detector
91	A-SHUT	I	A Deck reel pulse detector
92	SOFT-TEST	O	Software test port (Not used)
93	HP-MUTE	O	Head phone mute signal output
94	KEY/CD-ADJ	I	KEY (use the jig)/CD adjust point port
95	MODEL IN	I	MODEL input
96	AVSS	–	Analog ground
97	SPEC-IN	I	Specifications input
98	VREF	I	Analog reference voltage input
99	AVCC	–	Analog power supply (+5V)
100	TC-RELAY	O	REC/PB head selection output for IC602

• IC601 DISPLAY CONTROL (TMP88CS76F-6004/TMP88CS76F-6000) (PANEL FL board)

Pin No.	Pin Name	I/O	Function
1	SIRCS	I	Remote commander signal input
2	JOG A	I	Rotary encoder (S702) pulse input
3	LED SCK	O	LED clock signal output
4	LED LATCH	O	LED latch signal output
5	LED DAT	O	LED serial data output
6	LED POWER	–	Not used
7	LED SEL	O	LED select signal output
8	JOG B	I	Rotary encoder (S702) pulse input
9	VOLUME A	I	Rotary encoder (S701) pulse input
10	VOLUME B	I	
11 to 15	KEY 0 to KEY 4	I	Key input
16 to 20	BPF 0 to BPF 4	I	Rec level signal input
21	ALL BAND	O	Rec level signal output for auto DBDF
22	WAKE UP	O	Gradation right/WAKE UP signal output
23	Vss	–	Ground
24	VAss	–	
25	VAref	I	Analog reference voltage input
26	VDD	–	Power supply (+5V)
27 to 40	GR 3 to GR 16	O	FL gride signal output
41	VDD VFT	–	Power supply (+5V) for VFT
42, 43	GR 1, GR 2	O	FL gride signal output
44	SEG 0	O	FL segment signal output (Not used)
45 to 67	SEG 1 to SEG 23	O	FL segment signal output
68	Vkk	–	Power supply (-25V) for FL segment signal output
69	Vdd	–	Power supply (+5V)
70	X in	I	X'tal (12.5MHz)
71	Vss	–	Ground
72	X out	O	X'tal (12.5MHz)
73	RESET	I	Reset signal input from main controller
74	DAILY LED	O	LED driver output
75	REC LED	O	
76	TEST	I	Connected ground
77	LED-ECO	O	LED driver output
78	I ² C DATA	I	I ² C SDA input from master controller
79	I ² C CLK	I	I ² C SCL input from master controller
80	D-SW	I	Door switch signal input

SECTION 8 EXPLODED VIEWS

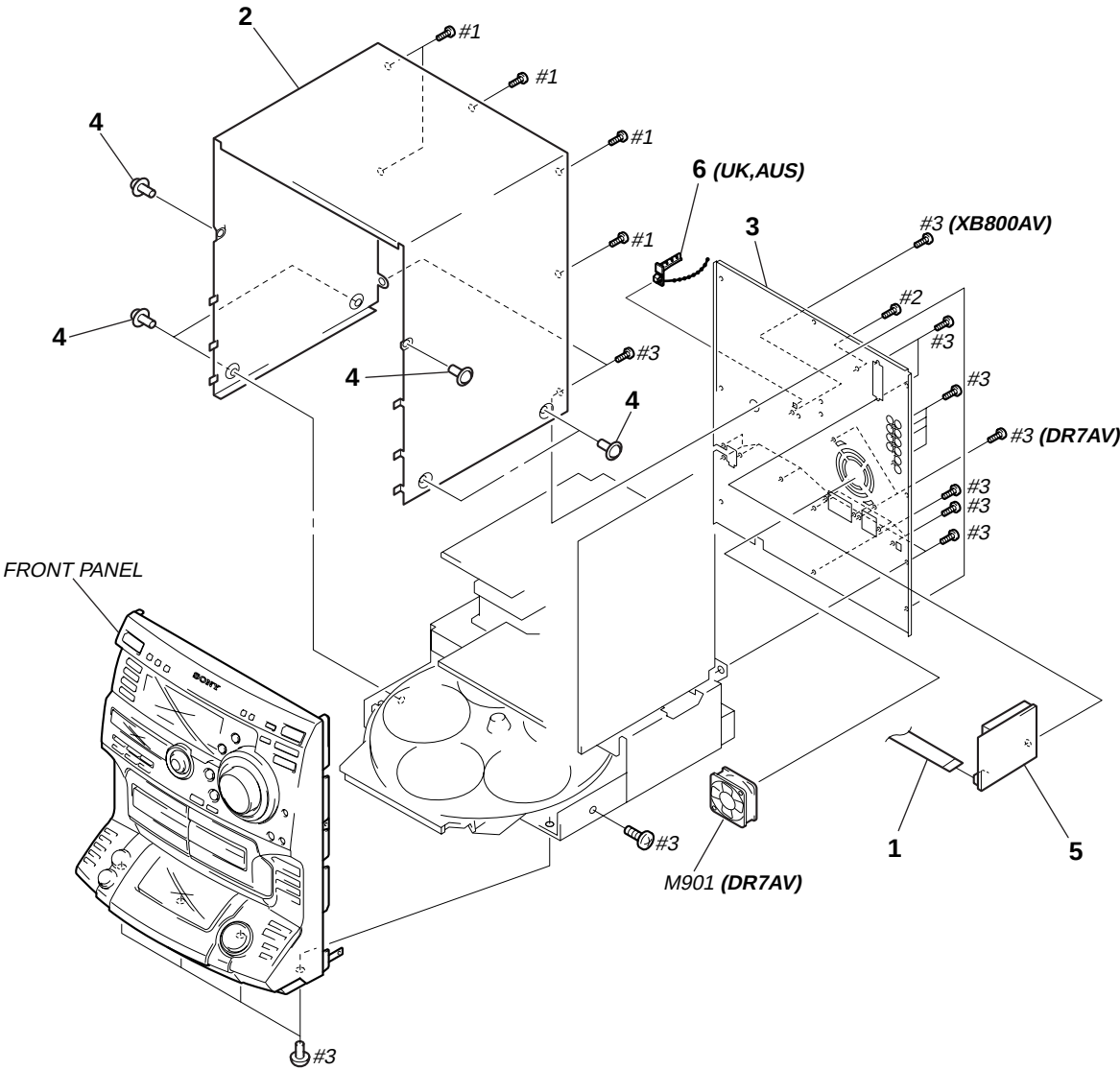
NOTE:

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

- Abbreviation
 EE : East European model
 EA : Saudi Arabia model
 SP : Singapore model
 AUS : Australian model
 TH : Thailand model

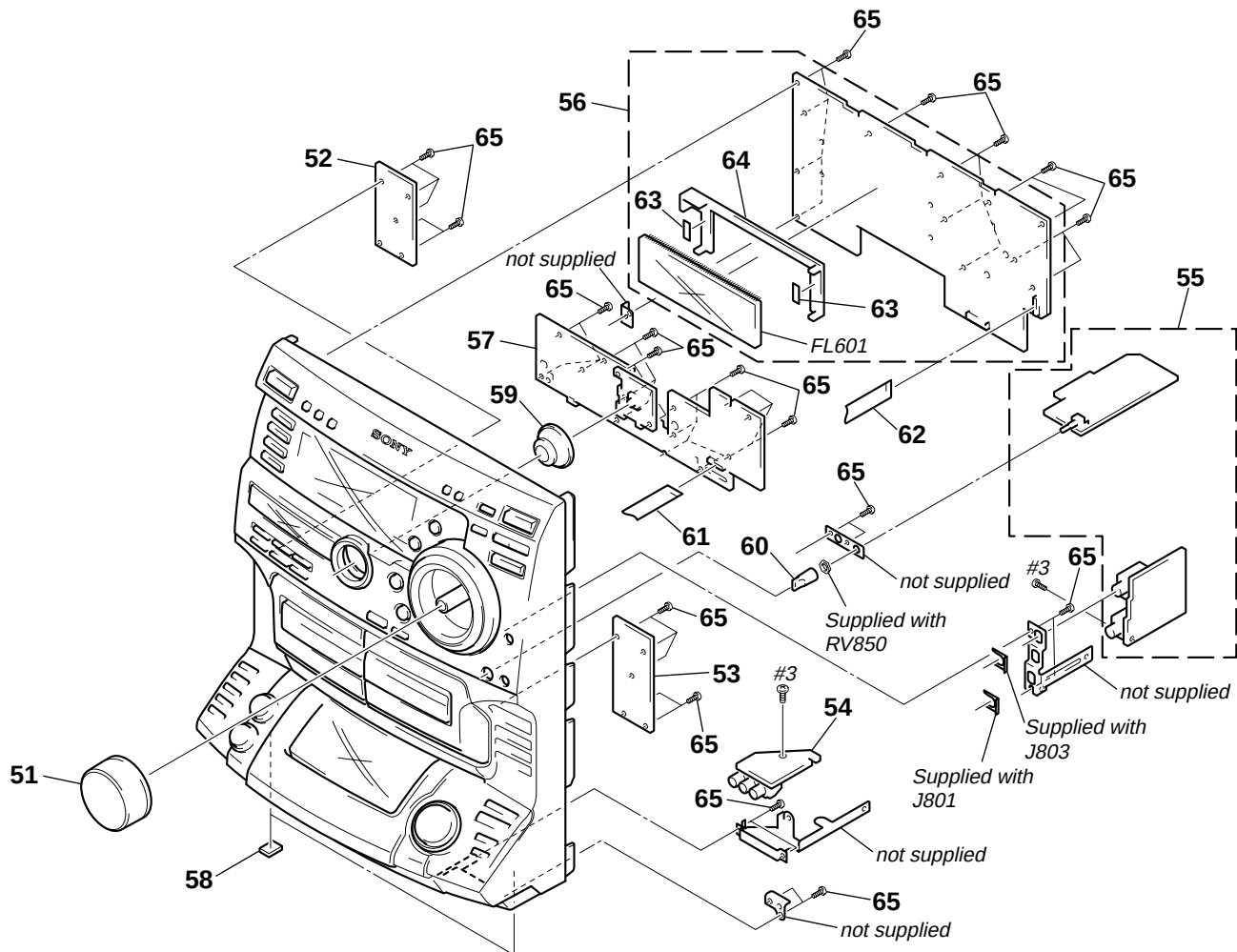
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

8-1. CASE AND BACK PANEL SECTION



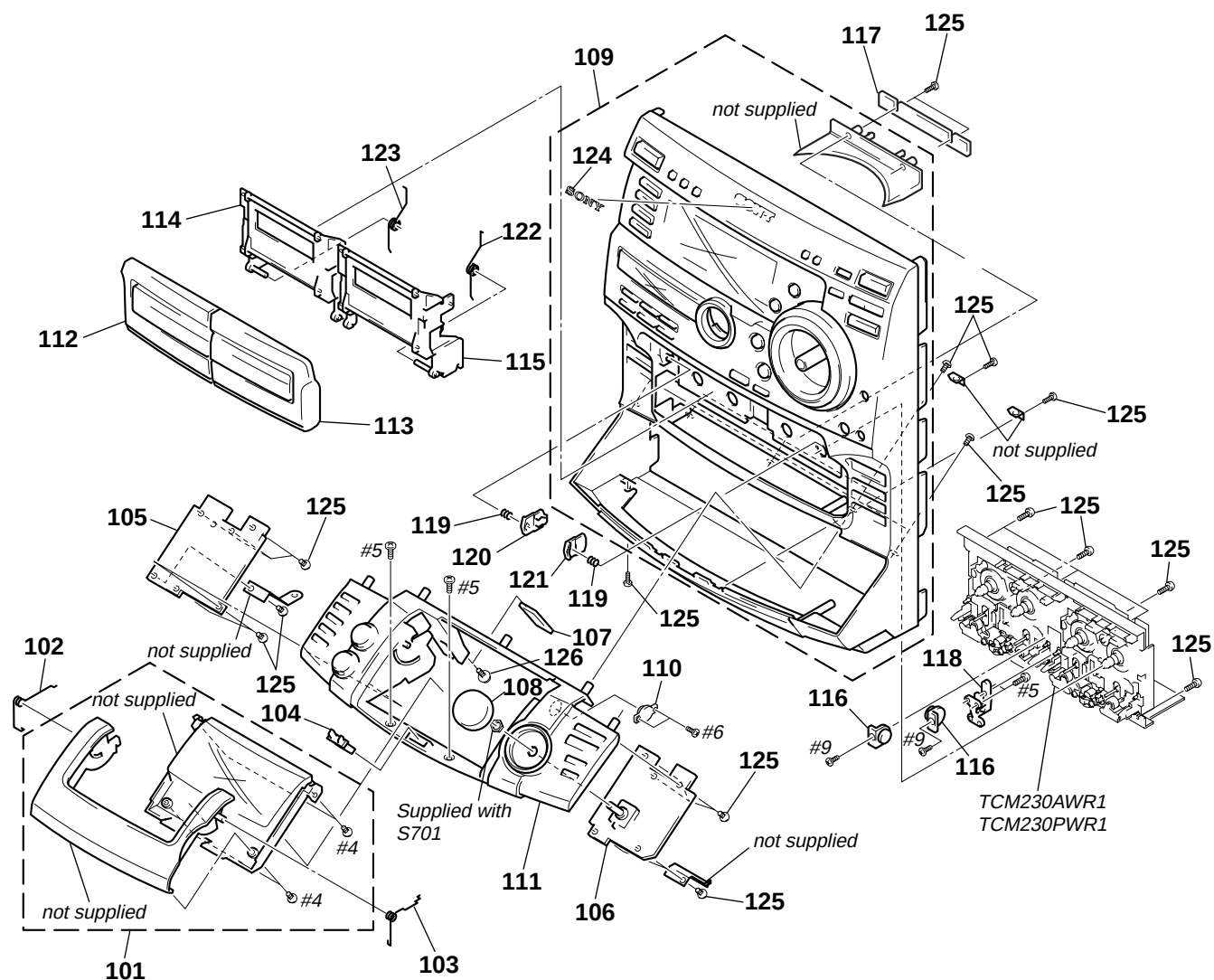
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	1-769-977-11	WIRE (FLAT TYPE) (13 CORE)(DR7AV)		* 3	4-214-788-61	PANEL, BACK (DR7AV:TH)	
1	1-773-009-11	WIRE (FLAT TYPE) (15 CORE)(XB800AV)		* 3	4-214-785-41	PANEL, BACK (XB800AV)(THAI PRODUCT)	
* 2	4-214-777-11	CASE		4	3-363-099-01	SCREW (CASE 3 TP2)	
* 3	4-214-785-31	PANEL, BACK (XB800AV)(INDONESIA PRODUCT)		5	1-233-545-11	TUNER (FM/AM)(DR7AV)	
* 3	4-214-788-01	PANEL, BACK (DR7AV:SP)		5	1-693-443-11	TUNER (FM/AM)(XB800AV)	
* 3	4-214-788-11	PANEL, BACK (DR7AV:EA)		6	4-956-370-12	BAND, PLUG FIXED (UK,AUS)	
* 3	4-214-788-21	PANEL, BACK (DR7AV:AUS)		M901	1-698-792-11	FAN, DC (DR7AV)	

8-2. FRONT PANEL SECTION 1



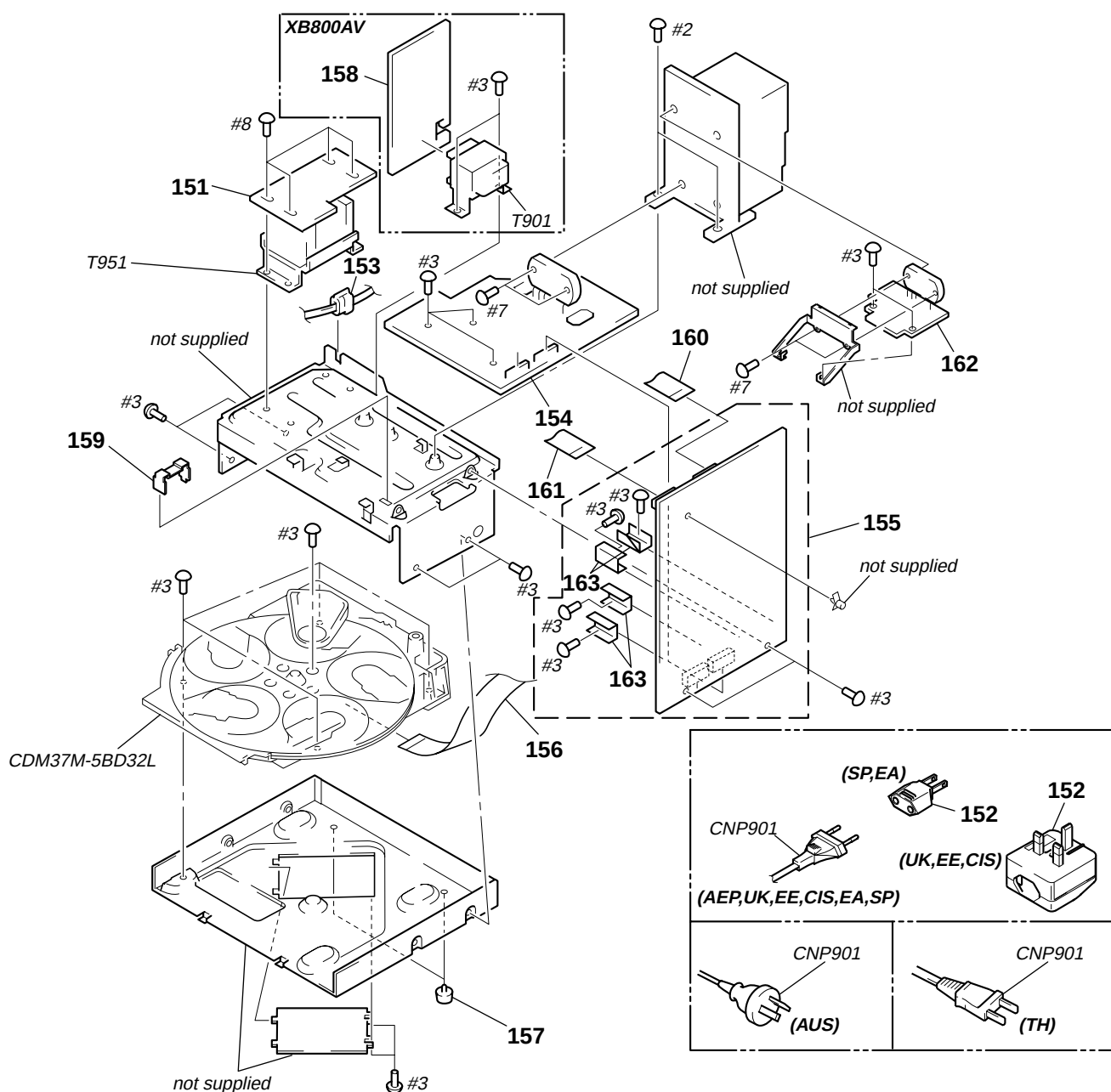
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-214-716-01	KNOB (VOL)		59	4-214-717-01	CURSOR	
* 52	1-672-193-11	TC-A BOARD		60	4-214-756-01	KNOB (MICROPHONE)	
* 53	1-672-194-11	TC-B BOARD		61	1-773-002-11	WIRE (FLAT TYPE) (15 CORE)(80mm)	
* 54	1-672-190-11	FRONT INPUT BOARD		62	1-773-034-11	WIRE (FLAT TYPE) (15 CORE)(420mm)	
* 55	A-4417-530-A	JACK BOARD, COMPLETE		* 63	4-949-935-81	CUSHION (FL)	
* 56	A-4417-490-A	PANEL FL BOARD, COMPLETE (XB800AV)		* 64	4-214-749-01	HOLDER (925), FL TUBE	
* 56	A-4417-570-A	PANEL FL BOARD, COMPLETE (DR7AV)		65	4-951-620-01	SCREW (2.6X8), +BVTP	
* 57	A-4417-502-A	PANEL VR BOARD, COMPLET		FL601	1-517-839-11	INDICATOR TUBE, FLUORESCENT	
58	4-948-236-21	CUSHION (107)					

8-3. FRONT PANEL SECTION 2



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-4950-635-1	LID ASSY, CD		114	X-4950-641-1	HOLDER (A) ASSY, CASSETTE	
102	4-214-773-01	SPRING (CD-L), TORSION		115	X-4950-642-1	HOLDER (B) ASSY, CASSETTE	
103	4-214-774-01	SPRING (CD-R), TORSION		116	4-210-045-02	DAMPER	
104	4-040-472-01	LATCH, D.C.		* 117	1-672-195-11	LED (PANEL) BOARD	
* 105	1-672-186-11	CD-L BOARD		118	4-214-755-01	HOLDER (FULCRUM)	
* 106	1-672-187-11	CD-R BOARD		119	4-214-775-02	SPRING, PUSH CATCHER RETURN	
* 107	1-672-191-11	DOOR-SW BOARD		120	4-214-760-11	CATCHER (A), PUSH	
108	4-214-718-01	KNOB (CD)		121	4-214-761-11	CATCHER (B), PUSH	
109	X-4950-621-1	PANEL ASSY (DR7AV)		122	4-214-769-01	SPRING (TC-B), TORSION	
109	X-4950-623-1	PANEL ASSY (XB800AV)		123	4-214-768-01	SPRING (TC-A), TORSION	
* 110	3-973-975-21	DAMPER, OIL		124	4-214-759-01	EMBLEM (NO.6), SONY	
111	X-4950-633-1	PANEL ASSY, SUB		125	4-951-620-01	SCREW (2.6X8), +BVTP	
112	X-4950-660-1	LID (A) ASSY, CASSETTE (XB800AV)		126	4-957-577-01	SCREW PTP WH (2.6X8)(DIA. 10)	
112	X-4950-661-1	LID (A) ASSY, CASSETTE (DR7AV)					
113	X-4950-639-1	LID (B) ASSY, CASSETTE					

8-4. CHASSIS SECTION

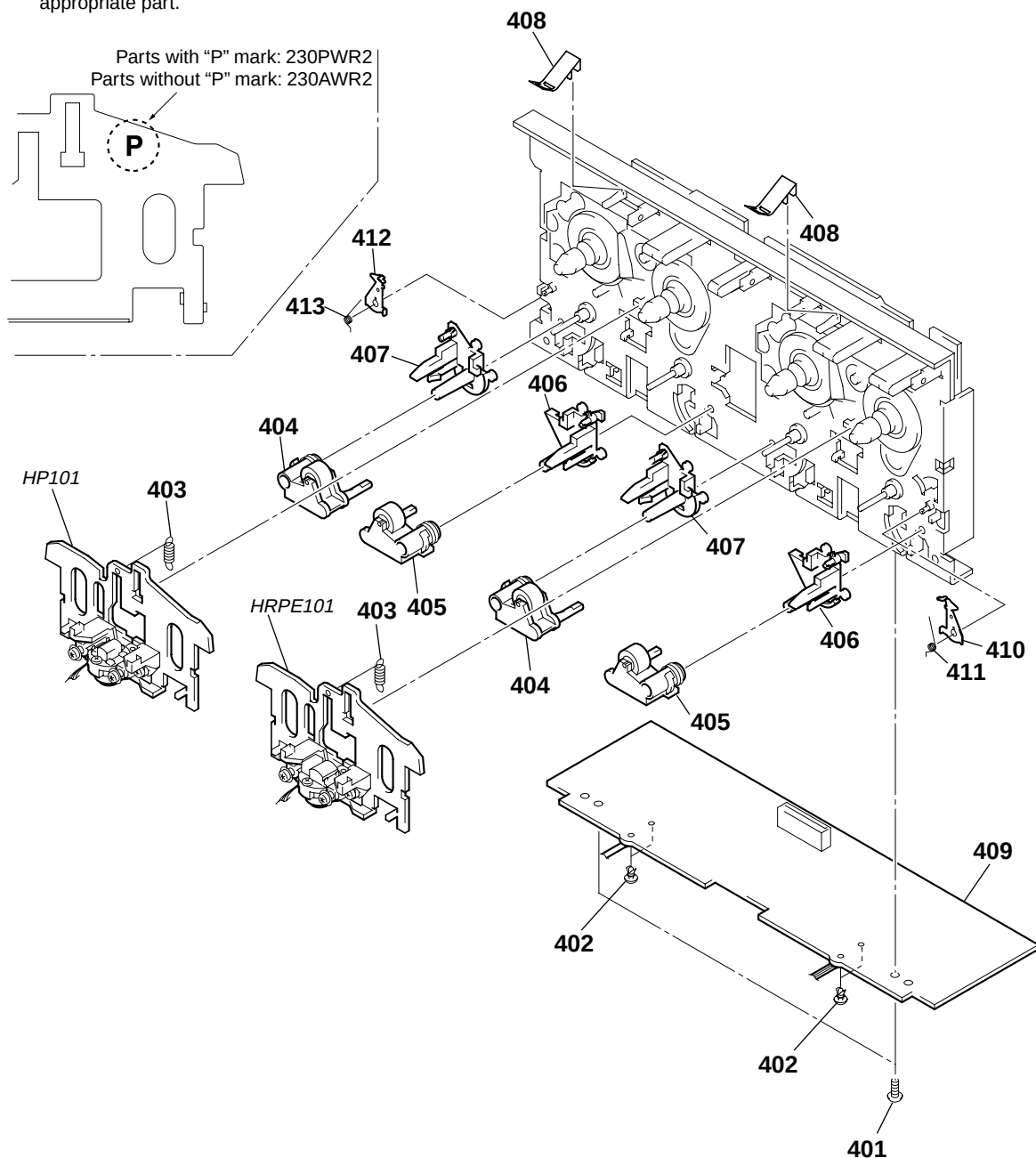


The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 151	1-673-110-11	TRANS BOARD (DR7AV)		* 158	1-672-432-11	SUB TRANS BOARD (XB800AV)	
* 151	1-672-431-11	TRANS BOARD (XB800AV)		* 159	4-988-533-01	HOLDER, PWB	
152	1-569-008-21	ADAPTOR, CONVERSION 2P (SP,EA)		160	1-773-006-11	WIRE (FLAT TYPE) (15 CORE)	
152	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK,EE,CIS)		161	1-773-056-11	WIRE (FLAT TYPE) (17 CORE)	
153	3-703-244-00	BUSHING (FBS001), CORD		* 162	A-4417-501-A	SURROUND AMP BOARD, COMPLETE	
* 154	A-4417-477-A	PA BOARD, COMPLETE (XB800AV)		163	4-875-327-31	HEAT SINK	
* 154	A-4417-479-A	PA BOARD, COMPLETE (DR7AV)		Δ CNP901	1-558-943-41	CORD, POWER (TH)	
* 155	A-4417-468-A	MAIN BOARD, COMPLETE (DR7AV:XB800AV)		Δ CNP901	1-575-651-21	CORD, POWER (AEP,UK,EE,CIS,SP,EA)	
* 155	A-4417-470-A	MAIN BOARD, COMPLETE (SP,TH,AUS)		Δ CNP901	1-696-845-11	CORD, POWER (AUS)	
* 155	A-4419-301-A	MAIN BOARD, COMPLETE (EA)		Δ T901	1-433-619-11	TRANSFORMER, POWER (XB800AV)	
156	1-790-287-11	WIRE (FLAT TYPE) (19 CORE)		Δ T951	1-433-608-11	TRANSFORMER, POWER (XB800AV)	
157	X-4941-228-1	FOOT (F22125H-M)		Δ T951	1-433-609-11	TRANSFORMER, POWER (DR7AV)	

8-5. TC MECHANISM SECTION 1 (TCM230AWR2/230PWR2)

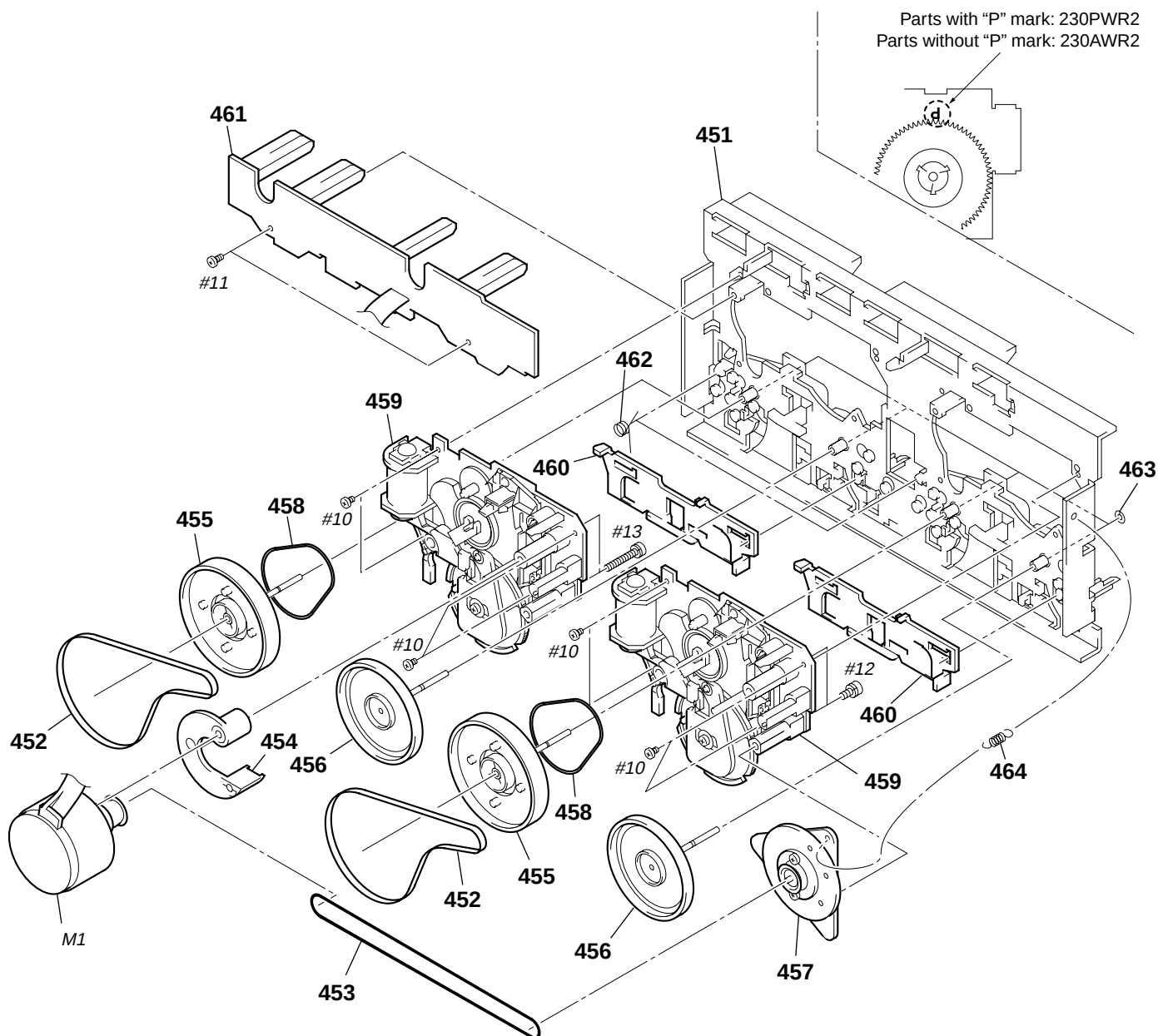
*NOTE: Two types of parts which are not interchangeable are available for the Head deck (A) ASSY and Head deck (B) ASSY. When replacing the parts, refer to the following figure, and use the appropriate part.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	3-376-464-11	SCREW(+PTT 2.6X6),GROUND POINT		410	3-016-573-01	LEVER (EJECT PREVENTION R)	
402	3-911-116-21	RIVET, PUSH		411	3-032-810-02	SPRING (R), TORSION	
403	3-016-574-01	SPRING (HEAD), TENSION		412	3-016-572-01	LEVER (EJECT PREVENTION L)	
404	X-3374-156-1	PINCH LEVER (REV) ASSY		413	3-032-809-02	SPRING (L), TORSION	
405	X-3374-155-1	PINCH LEVER (FWD) ASSY		HP101	A-2056-681-B	DECK (A) ASSY, HEAD (230AWR2)(*NOTE)	
406	3-017-365-01	BASE (PINCH LEVER FWD)		HP101	A-2056-683-B	DECK (A) ASSY, HEAD (230PWR2)(*NOTE)	
407	3-017-366-01	BASE (PINCH LEVER REV)		HRPE101	A-2056-682-B	DECK (B) ASSY, HEAD (230AWR2)(*NOTE)	
408	3-026-892-01	SPRING (CASSETTE), LEAF		HRPE101	A-2056-684-B	DECK (B) ASSY, HEAD (230PWR2)(*NOTE)	
409	A-2007-799-A	AUDIO BOARD, COMPLETE					

8-6. TC MECHANISM SECTION 2 (TCM230AWR2/230PWR2)

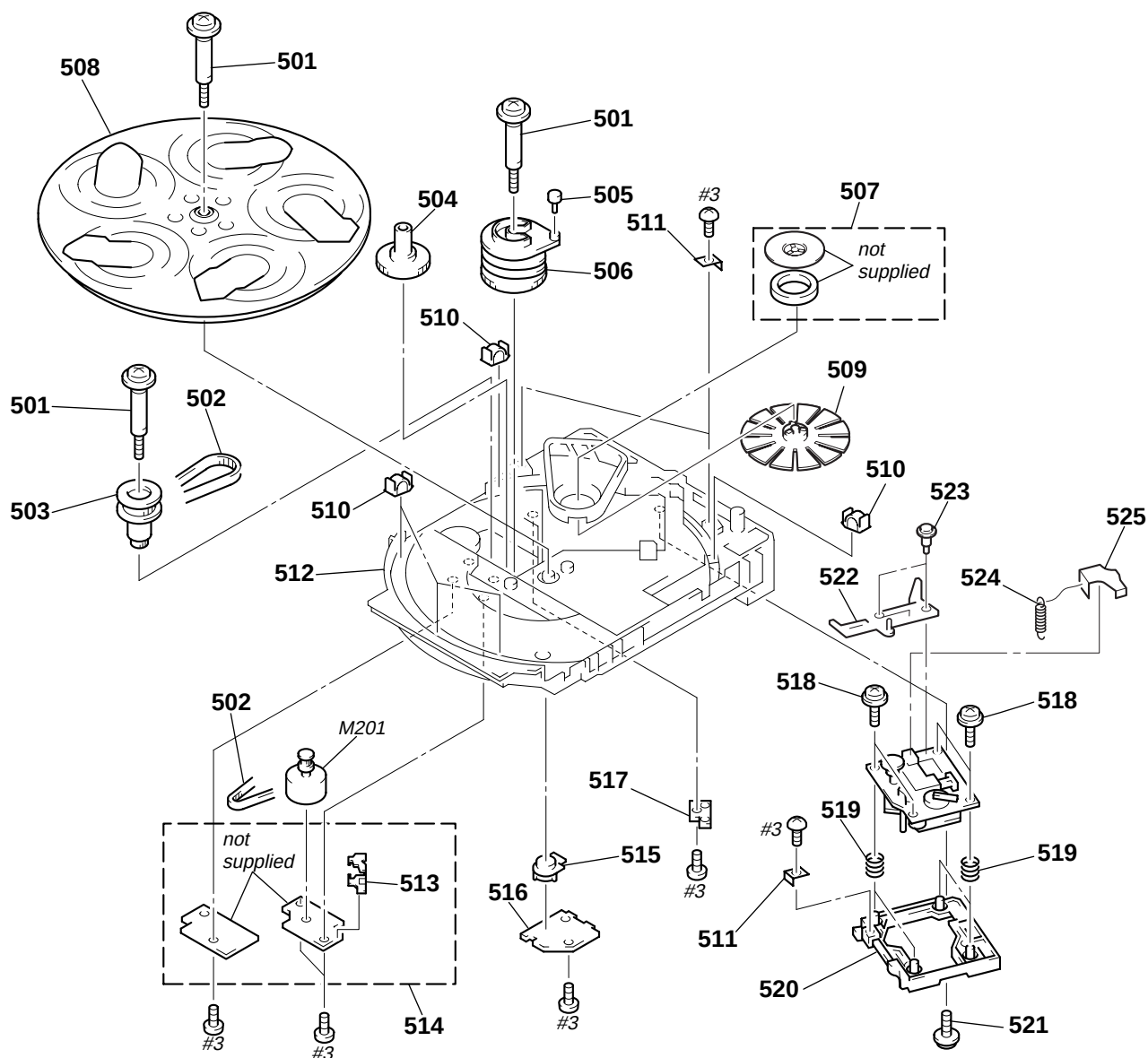
*NOTE: Two types of parts which are not interchangeable are available for the mechanical block assembly. When replacing the parts, refer to the following figure, and use the appropriate part.



Ref. No.	Part No.	Description	Remark
451	X-3374-214-1	CHASSIS ASSY, MAIN	
452	3-016-570-01	BELT (CAPSTAN)	
453	3-016-569-01	BELT (TENSION)	
* 454	3-016-568-01	BRACKET (MOTOR)	
455	X-3374-075-5	FLYWHEEL (FWD) ASSY	
456	X-3374-076-1	FLYWHEEL (REV) ASSY	
457	X-3374-157-1	PULLEY ASSY, TENSION	
458	3-024-405-01	BELT (FR2)	
459	A-2004-629-A	MECHANICAL BLOCK ASSY (230AWR2)(*NOTE)	

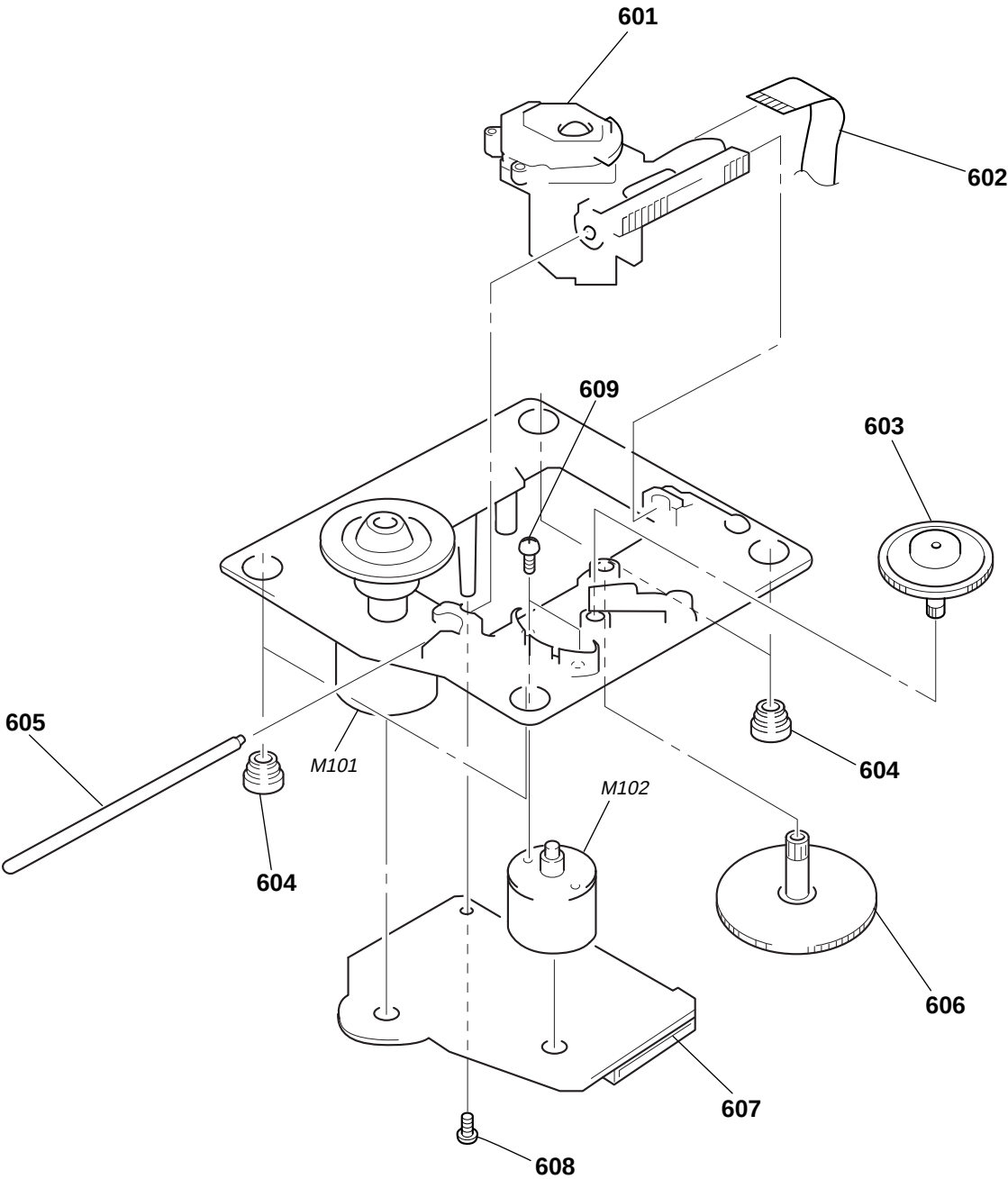
Ref. No.	Part No.	Description	Remark
459	A-2004-630-A	MECHANICAL BLOCK ASSY (230PWR2)(*NOTE)	
460	3-016-566-01	SLIDER, REVERSE	
461	A-2007-800-A	LEAF SW BOARD, COMPLETE	
462	3-016-575-01	SPRING, TORSION	
463	3-019-208-01	WASHER, STOPPER	
464	3-027-453-01	SPRING (GROUND), TENSION	
M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	

8-7. CD MECHANISM SECTION (CDM37M-5BD32L)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-987-976-01	SCREW, STEP		515	4-978-426-01	INDICATOR (NO.)	
502	4-944-490-01	BELT (TIMING)		* 516	1-659-059-13	LED (CD) BOARD	
503	A-4660-978-A	GEAR (PULLEY) ASSY		* 517	1-659-058-13	TABLE SENSOR BOARD	
504	4-978-421-01	GEAR (MID)		518	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
505	4-978-425-01	ROLLER (CAM)		519	4-958-593-01	SPRING (BU), COMPRESSION	
506	4-978-420-01	CAM (HOLDER)		* 520	4-978-419-01	HOLDER (BU-5)	
507	1-452-925-21	MAGNET ASSY		521	4-998-716-01	SCREW, BU FITTING	
508	4-978-417-01	TABLE, DISC		522	4-989-493-01	SLIDER (37)	
509	4-993-142-11	PULLEY (L), PRESS		523	4-989-494-01	SCREW (SLIDER), STEP	
510	X-4947-960-1	ROLLER ASSY		524	4-989-819-02	SPRING, TENSION	
* 511	4-978-583-01	BRACKET (BU)		525	4-989-491-21	COVER, LENS	
* 512	4-978-418-01	CHASSIS		M201	A-4660-977-A	MOTOR ASSY (TABLE)	
* 513	4-980-385-01	HOLDER (SW)					
* 514	A-4673-765-A	CD MOTOR BOARD, COMPLETE					

8-8. BASE UNIT SECTION (BU-5BD32L)



The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
$\triangle$ 601	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-NP		* 607	A-4724-488-A	BD BOARD, COMPLETE	
602	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)		608	4-951-620-01	SCREW (2.6X8), +BVTP	
603	4-917-567-21	GEAR (M)		609	3-713-786-51	SCREW +P 2X3	
604	4-951-940-01	INSULATOR (BU)		M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
605	4-917-565-01	SHAFT, SLED		M102	X-4917-504-1	MOTOR ASSY (SLED)	
606	4-917-564-01	GEAR (P), FLATNESS					

SECTION 9 ELECTRICAL PARTS LIST

AUDIO

Note:

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable

- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA..., uPB...: μ PB..., uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H
- Abbreviation
EE : East European model
EA : Saudi Arabia model
SP : Singapore model
AUS : Australian model
TH : Thailand model

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
	A-2007-799-A	AUDIO BOARD, COMPLETE *****					IC602	8-759-143-54	IC UPC1330HA				
							IC611	8-759-111-44	IC UPC4570C-1				
		< CAPACITOR >							< COIL >				
C301	1-162-289-31	CERAMIC	390PF	10%	50V		L331	1-410-780-11	INDUCTOR	27mH			
C302	1-126-968-11	ELECT	100uF	20%	6.3V		L431	1-410-780-11	INDUCTOR	27mH			
C303	1-162-282-31	CERAMIC	100PF	10%	50V		L601	1-414-193-41	INDUCTOR	220uH			
C304	1-130-483-00	MYLAR	0.01uF	5%	50V		L602	1-414-193-41	INDUCTOR	220uH			
C305	1-107-715-11	ELECT	22uF	20%	16V				< TRANSISTOR >				
C311	1-162-289-31	CERAMIC	390PF	10%	50V		Q621	8-729-142-46	TRANSISTOR	2SC2001-LK			
C313	1-162-282-31	CERAMIC	100PF	10%	50V		Q622	8-729-142-46	TRANSISTOR	2SC2001-LK			
C314	1-130-487-00	MYLAR	0.022uF	5%	50V		Q623	8-729-801-93	TRANSISTOR	2SD1387			
C315	1-126-233-11	ELECT	22uF	20%	50V				< RESISTOR >				
C331	1-137-427-11	FILM	120PF	5%	50V		R301	1-247-881-00	CARBON	120K	5%	1/4W	
C332	1-162-288-31	CERAMIC	330PF	10%	50V		R302	1-247-815-91	CARBON	220	5%	1/4W	
C333	1-162-209-31	CERAMIC	27PF	5%	50V		R303	1-247-863-91	CARBON	22K	5%	1/4W	
C401	1-162-289-31	CERAMIC	390PF	10%	50V		R304	1-247-889-00	CARBON	270K	5%	1/4W	
C402	1-126-968-11	ELECT	100uF	20%	6.3V		R305	1-247-858-11	CARBON	13K	5%	1/4W	
C403	1-162-282-31	CERAMIC	100PF	10%	50V		R311	1-247-881-00	CARBON	120K	5%	1/4W	
C404	1-130-483-00	MYLAR	0.01uF	5%	50V		R312	1-247-807-31	CARBON	100	5%	1/4W	
C405	1-107-715-11	ELECT	22uF	20%	16V		R314	1-247-882-11	CARBON	130K	5%	1/4W	
C411	1-162-289-31	CERAMIC	390PF	10%	50V		R315	1-247-850-11	CARBON	6.2K	5%	1/4W	
C413	1-162-282-31	CERAMIC	100PF	10%	50V		R331	1-249-430-11	CARBON	12K	5%	1/4W	
C414	1-130-487-00	MYLAR	0.022uF	5%	50V		R401	1-247-881-00	CARBON	120K	5%	1/4W	
C415	1-126-233-11	ELECT	22uF	20%	50V		R402	1-247-815-91	CARBON	220	5%	1/4W	
C431	1-137-427-11	FILM	120PF	5%	50V		R403	1-247-863-91	CARBON	22K	5%	1/4W	
C432	1-162-288-31	CERAMIC	330PF	10%	50V		R404	1-247-889-00	CARBON	270K	5%	1/4W	
C433	1-162-209-31	CERAMIC	27PF	5%	50V		R405	1-247-858-11	CARBON	13K	5%	1/4W	
C601	1-104-396-11	ELECT	10uF	20%	16V		R411	1-247-881-00	CARBON	120K	5%	1/4W	
C602	1-104-396-11	ELECT	10uF	20%	16V		R412	1-247-807-31	CARBON	100	5%	1/4W	
C611	1-104-396-11	ELECT	10uF	20%	16V		R414	1-247-882-11	CARBON	130K	5%	1/4W	
C612	1-104-396-11	ELECT	10uF	20%	16V		R415	1-247-850-11	CARBON	6.2K	5%	1/4W	
C621	1-137-150-11	FILM	0.01uF	5%	100V		R431	1-249-430-11	CARBON	12K	5%	1/4W	
C622	1-126-961-11	ELECT	2.2uF	20%	50V		R601	1-247-815-91	CARBON	220	5%	1/4W	
C623	1-136-155-00	FILM	0.015uF	5%	50V		R602	1-247-815-91	CARBON	220	5%	1/4W	
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V		R608	1-247-815-91	CARBON	220	5%	1/4W	
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V		R609	1-247-863-91	CARBON	22K	5%	1/4W	
C627	1-124-903-11	ELECT	1uF	20%	50V		R611	1-247-815-91	CARBON	220	5%	1/4W	
C628	1-136-153-00	FILM	0.01uF	5%	50V		R612	1-247-815-91	CARBON	220	5%	1/4W	
C642	1-104-664-11	ELECT	47uF	20%	16V		△ R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
		< CONNECTOR >					△ R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
CN601	1-695-338-11	PIN, CONNECTOR (PC BOARD) 15P					R623	1-249-432-11	CARBON	18K	5%	1/4W	
		< IC >					R624	1-249-432-11	CARBON	18K	5%	1/4W	
IC601	8-759-111-44	IC UPC4570C-1					R625	1-249-429-11	CARBON	10K	5%	1/4W	

Ref. No.	Part No.	Description	Remark			
< VARIABLE RESISTOR >						
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV341	1-241-768-11	RES, ADJ, CARBON 220K				
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV441	1-241-768-11	RES, ADJ, CARBON 220K				
< TRANSFORMER >						
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION				

*	A-4724-488-A	BD BOARD, COMPLETE				

< CAPACITOR >						
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C102	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C104	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C109	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	
C110	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V	
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C113	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C114	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V	
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V	
C117	1-126-209-11	ELECT CHIP	100uF	20%	4V	
C118	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C119	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C122	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C123	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	
C124	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C125	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C127	1-128-065-11	ELECT CHIP	68uF	20%	10V	
C128	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C129	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C130	1-164-346-11	CERAMIC CHIP	1uF		16V	
C131	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C133	1-164-346-11	CERAMIC CHIP	1uF		16V	
C140	1-164-346-11	CERAMIC CHIP	1uF		16V	
C141	1-164-346-11	CERAMIC CHIP	1uF		16V	
C143	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C151	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C153	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C154	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V	
C156	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C157	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C159	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
C161	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C162	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	
C163	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	

Ref. No.	Part No.	Description	Remark			
C165	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C167	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C168	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C171	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C172	1-163-123-00	CERAMIC CHIP	180PF	5%	50V	
C181	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C182	1-163-123-00	CERAMIC CHIP	180PF	5%	50V	
< CONNECTOR >						
CN101	1-778-874-11	CONNECTOR,FFC(LIF(NON-ZIF))19P				
CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P				
< FERRITE BEAD >						
FB101	1-500-445-21	FERRITE	0UH			
FB103	1-500-445-21	FERRITE	0UH			
< IC >						
IC101	8-752-386-85	IC CXD2587Q				
IC102	8-759-549-28	IC BA5974FP-E2				
IC103	8-752-085-51	IC CXA2568M-T6				
< TRANSISTOR >						
Q101	8-729-010-08	TRANSISTOR MSB710-R				
< RESISTOR >						
R101	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R102	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R103	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R104	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R105	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R106	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R107	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R108	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R109	1-216-121-91	RES,CHIP	1M	5%	1/10W	
R110	1-216-025-91	RES,CHIP	100	5%	1/10W	
R111	1-216-121-91	RES,CHIP	1M	5%	1/10W	
R113	1-216-121-91	RES,CHIP	1M	5%	1/10W	
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R116	1-216-001-00	METAL CHIP	10	5%	1/10W	
R117	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R119	1-216-041-00	METAL CHIP	470	5%	1/10W	
R123	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R124	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R131	1-216-033-00	METAL CHIP	220	5%	1/10W	
R143	1-216-103-00	METAL CHIP	180K	5%	1/10W	
R144	1-216-103-00	METAL CHIP	180K	5%	1/10W	
R147	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R148	1-216-001-00	METAL CHIP	10	5%	1/10W	
R149	1-216-001-00	METAL CHIP	10	5%	1/10W	
R158	1-216-111-00	METAL CHIP	390K	5%	1/10W	
R159	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R161	1-216-308-00	METAL CHIP	4.7	5%	1/10W	
R162	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R171	1-216-078-00	RES,CHIP	16K	5%	1/10W	
R172	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R173	1-216-077-00	METAL CHIP	15K	5%	1/10W	

Ref. No.	Part No.	Description	Remark
R181	1-216-078-00	RES,CHIP 16K 5%	1/10W
R182	1-216-073-00	METAL CHIP 10K 5%	1/10W
R183	1-216-077-00	METAL CHIP 15K 5%	1/10W
< NETWORK >			
RN101	1-233-576-11	RES, CHIP NETWORK 100	
RN102	1-233-576-11	RES, CHIP NETWORK 100	
< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT SW)	
< VIBRATOR >			
X101	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)	

*	1-672-186-11	CD-L BOARD *****	
< CONNECTOR >			
CN812	1-785-332-11	PIN, CONNECTOR (LIGHT ANGLE)6P	
< DIODE >			
D641	8-719-058-04	DIODE SEL5223S-TP15 (NON-STOP)	
< RESISTOR >			
R731	1-249-410-11	CARBON 270 5%	1/4W F
R732	1-249-411-11	CARBON 330 5%	1/4W
R733	1-249-413-11	CARBON 470 5%	1/4W F
R734	1-249-414-11	CARBON 560 5%	1/4W F
R735	1-249-415-11	CARBON 680 5%	1/4W F
R736	1-249-417-11	CARBON 1K 5%	1/4W F
R742	1-249-427-11	CARBON 6.8K 5%	1/4W F
R743	1-249-429-11	CARBON 10K 5%	1/4W
R744	1-249-431-11	CARBON 15K 5%	1/4W
R745	1-249-407-11	CARBON 150 5%	1/4W F
< SWITCH >			
S661	1-554-303-21	SWITCH, TACTILE (DISC 1)	
S662	1-554-303-21	SWITCH, TACTILE (DISC 2)	
S663	1-554-303-21	SWITCH, TACTILE (DISC 3)	
S664	1-554-303-21	SWITCH, TACTILE (DISC 4)	
S665	1-554-303-21	SWITCH, TACTILE (DISC 5)	
S666	1-554-303-21	SWITCH, TACTILE (FLASH)	
S672	1-554-303-21	SWITCH, TACTILE (EDIT)	
S673	1-554-303-21	SWITCH, TACTILE (NON-STOP)	
S674	1-554-303-21	SWITCH, TACTILE (LOOP)	
S702	1-473-534-11	ENCODER, ROTARY (I◀◀ AMS ▶▶I)	

*	A-4673-765-A	CD MOTOR BOARD, COMPLETE *****	
< CAPACITOR >			
C201	1-124-907-11	ELECT 10uF 20%	50V

Ref. No.	Part No.	Description	Remark
C202	1-164-159-21	CERAMIC 0.1uF	50V
C203	1-124-907-11	ELECT 10uF 20%	50V
< CONNECTOR >			
* CN201	1-568-947-11	PIN, CONNECTOR 9P	
< IC >			
IC201	8-759-365-94	IC TA8409S	
< COIL >			
L201	1-408-117-00	INDUCTOR 10uH	
< RESISTOR >			
R205	1-249-427-11	CARBON 6.8K 5%	1/4W F
R206	1-249-425-11	CARBON 4.7K 5%	1/4W F
< SWITCH >			
S201	1-762-587-11	SWITCH, PUSH (1 KEY)(UP SWITCH)	

*	1-672-187-11	CD-R BOARD *****	
< CAPACITOR >			
C613	1-162-306-11	CERAMIC 0.01uF 20%	16V
C614	1-162-306-11	CERAMIC 0.01uF 20%	16V
< CONNECTOR >			
CN703	1-785-333-11	PIN, CONNECTOR (LIGHT ANGLE)7P	
< DIODE >			
D700	8-719-056-13	DIODE SML79423C-TP15 (▷◻◻)	
< RESISTOR >			
R751	1-247-843-11	CARBON 3.3K 5%	1/4W
R752	1-249-425-11	CARBON 4.7K 5%	1/4W F
R753	1-249-427-11	CARBON 6.8K 5%	1/4W F
R754	1-249-429-11	CARBON 10K 5%	1/4W
R755	1-249-431-11	CARBON 15K 5%	1/4W
R756	1-249-434-11	CARBON 27K 5%	1/4W
R757	1-249-438-11	CARBON 56K 5%	1/4W
R758	1-247-804-11	CARBON 75 5%	1/4W
R759	1-247-804-11	CARBON 75 5%	1/4W
< SWITCH >			
S676	1-554-303-21	SWITCH, TACTILE (PLAY MODE)	
S677	1-554-303-21	SWITCH, TACTILE (REPEAT)	
S678	1-554-303-21	SWITCH, TACTILE (<◁)	
S679	1-554-303-21	SWITCH, TACTILE (▷>)	
S681	1-554-303-21	SWITCH, TACTILE (▷◻◻)	
S682	1-554-303-21	SWITCH, TACTILE (◻)	
S683	1-554-303-21	SWITCH, TACTILE (DISC SKIP)	

DOOR SWITCH

FRONT INPUT

JACK

LEAF SW

Ref. No.	Part No.	Description	Remark			
*	1-672-191-11	DOOR SWITCH BOARD *****				
		< CAPACITOR >				
C691	1-162-306-11	CERAMIC	0.01uF	20%	16V	
		< SWITCH >				
S691	1-771-057-11	SWITCH, PUSH (1 KEY)(▲ OPEN)				

*	1-672-190-11	FRONT INPUT BOARD *****				
		< CAPACITOR >				
C801	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C802	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C811	1-162-282-31	CERAMIC	100PF	10%	50V	
C812	1-164-159-21	CERAMIC	0.1uF		50V	
C813	1-126-960-11	ELECT	1uF	20%	50V	
		< FLUORESCENT INDICATOR >				
FL803	1-424-228-11	FILTER, NOISE				
		< JACK >				
J804	1-764-592-41	JACK 3P (AUDIO L/R, VIDEO)				
		< RESISTOR >				
R801	1-249-417-11	CARBON	1K	5%	1/4W	F
R802	1-249-437-11	CARBON	47K	5%	1/4W	
R803	1-249-417-11	CARBON	1K	5%	1/4W	F
R804	1-249-437-11	CARBON	47K	5%	1/4W	
R805	1-247-804-11	CARBON	75	5%	1/4W	

*	A-4417-530-A	JACK BOARD, COMPLETE *****				
		< CAPACITOR >				
C804	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C805	1-126-961-11	ELECT	2.2uF	20%	50V	
C807	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C808	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C809	1-164-159-21	CERAMIC	0.1uF		50V	
C810	1-164-159-21	CERAMIC	0.1uF		50V	
C856	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C857	1-162-215-31	CERAMIC	47PF	5%	50V	
C858	1-126-964-11	ELECT	10uF	20%	50V	
C859	1-126-961-11	ELECT	2.2uF	20%	50V	
C860	1-162-215-31	CERAMIC	47PF	5%	50V	
C861	1-162-282-31	CERAMIC	100PF	10%	50V	
C862	1-126-961-11	ELECT	2.2uF	20%	50V	
C863	1-126-960-11	ELECT	1uF	20%	50V	
C864	1-126-964-11	ELECT	10uF	20%	50V	
C882	1-162-290-31	CERAMIC	470PF	10%	50V	
C883	1-162-306-11	CERAMIC	0.01uF	20%	16V	

Ref. No.	Part No.	Description	Remark			
		< CONNECTOR >				
CN802	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P				
		< GROUND TERMINAL >				
* EPT802	1-537-738-21	TERMINAL, EARTH				
		< FLUORESCENT INDICATOR >				
FL801	1-424-228-11	FILTER, NOISE				
FL802	1-424-228-11	FILTER, NOISE				
		< IC >				
IC850	8-759-634-50	IC M5218AL				
		< JACK >				
J801	1-770-226-11	JACK (LARGE TYPE)(MIX MIC)				
J803	1-770-226-11	JACK (LARGE TYPE)(PHONES)				
		< RESISTOR >				
R807	1-249-429-11	CARBON	10K	5%	1/4W	
R809	1-249-417-11	CARBON	1K	5%	1/4W	F
R810	1-247-807-31	CARBON	100	5%	1/4W	
R850	1-247-807-31	CARBON	100	5%	1/4W	
R852	1-249-441-11	CARBON	100K	5%	1/4W	
R853	1-249-417-11	CARBON	1K	5%	1/4W	F
R854	1-247-863-91	CARBON	22K	5%	1/4W	
R855	1-249-429-11	CARBON	10K	5%	1/4W	
R856	1-247-885-00	CARBON	180K	5%	1/4W	
R857	1-247-807-31	CARBON	100	5%	1/4W	
		< VARIABLE RESISTOR >				
RV850	1-225-587-11	RES, VAR, CARBON 50K				

	A-2007-800-A	LEAF SW BOARD, COMPLETE				

		< CAPACITOR >				
C1001	1-107-716-11	ELECT	33uF	20%	10V	
		< CONNECTOR >				
CN1001	1-784-459-11	CONNECTOR, FFC/FPC 17P				
		< DIODE >				
D1001	8-719-991-33	DIODE 1SS133T-77				
D1002	8-719-991-33	DIODE 1SS133T-77				
		< CABLE HOLDER >				
* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH) 4P				
		< IC >				
IC1001	8-749-014-38	IC PHOTO INTERRUPTER SG-264				
IC1002	8-749-014-38	IC PHOTO INTERRUPTER SG-264				

LEAF SW

LED (CD)

LED (PANEL)

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
< TRANSISTOR >						< RESISTOR >					
Q1001	8-729-029-56	TRANSISTOR DTA144ESA				R600	1-249-410-11	CARBON 270 5% 1/4W	F		
< RESISTOR >						*****					
R907	1-249-441-11	CARBON 100K 5% 1/4W				*	A-4417-468-A	MAIN BOARD, COMPLETE (XB800AV)	*****		
R1001	1-247-815-91	CARBON 220 5% 1/4W									
R1002	1-247-815-91	CARBON 220 5% 1/4W									
R1003	1-249-414-11	CARBON 560 5% 1/4W	F			*	A-4417-470-A	MAIN BOARD, COMPLETE (DR7AV:SP,TH,AUS)	*****		
R1004	1-247-834-11	CARBON 1.3K 5% 1/4W									
R1005	1-247-818-91	CARBON 300 5% 1/4W				*	A-4419-301-A	MAIN BOARD, COMPLETE (DR7AV:EA)	*****		
R1006	1-247-864-11	CARBON 24K 5% 1/4W									
R1007	1-247-856-00	CARBON 11K 5% 1/4W									
R1008	1-249-417-11	CARBON 1K 5% 1/4W	F				4-875-327-31	HEAT SINK			
							7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
< VARIABLE RESISTOR >						< CAPACITOR >					
RV1001	1-241-785-11	RES, ADJ, CARBON 10K (TAPE SPEED (NORMAL))				C111	1-137-195-11	FILM 0.56uF 5% 50V			
RV1002	1-241-785-11	RES, ADJ, CARBON 10K (TAPE SPEED (HIGH))				C112	1-136-158-00	FILM 0.027uF 5% 50V			
< SWITCH >						C113	1-136-167-00	FILM 0.15uF 5% 50V			
S1001	1-570-953-11	SWITCH, PUSH (1 KEY)				C114	1-130-480-00	MYLAR 0.0056uF 5% 50V			
S1002	1-570-953-11	SWITCH, PUSH (1 KEY)				C115	1-136-159-00	FILM 0.033uF 5% 50V			
S1003	1-771-333-11	SWITCH, LEAF (A PLAY)				C116	1-130-473-00	MYLAR 0.0015uF 5% 50V			
S1004	1-771-205-11	SWITCH, LEAF (B PLAY)				C117	1-136-153-00	FILM 0.01uF 5% 50V			
S1005	1-771-205-11	SWITCH, LEAF (A 120/70)				C118	1-163-129-00	CERAMIC CHIP 330PF 5% 50V			
S1006	1-771-333-11	SWITCH, LEAF (REC A)				C119	1-130-479-00	MYLAR 0.0047uF 5% 50V			
S1008	1-771-205-11	SWITCH, LEAF (REC B)				C120	1-130-477-00	MYLAR 0.0033uF 5% 50V			
S1009	1-771-205-11	SWITCH, LEAF (B 120/70)				C121	1-126-964-11	ELECT 10uF 20% 50V			
*****						C122	1-163-006-11	CERAMIC CHIP 560PF 10% 50V			
*	1-659-059-13	LED (CD) BOARD	*****			C123	1-136-169-00	FILM 0.22uF 5% 50V			
< DIODE >						C124	1-136-169-00	FILM 0.22uF 5% 50V			
D201	8-719-032-98	DIODE SEL5820A (DISC NO.)				C125	1-126-964-11	ELECT 10uF 20% 50V			
< TRANSISTOR >						C131	1-104-664-11	ELECT 47uF 20% 16V			
Q201	8-729-119-78	TRANSISTOR 2SC403SP-51				C132	1-104-664-11	ELECT 47uF 20% 16V			
< RESISTOR >						C135	1-126-964-11	ELECT 10uF 20% 50V			
R201	1-247-863-91	CARBON 22K 5% 1/4W				C161	1-137-195-11	FILM 0.56uF 5% 50V			
R202	1-249-411-11	CARBON 330 5% 1/4W				C162	1-136-158-00	FILM 0.027uF 5% 50V			
R203	1-249-437-11	CARBON 47K 5% 1/4W				C163	1-136-167-00	FILM 0.15uF 5% 50V			
*****						C164	1-130-480-00	MYLAR 0.0056uF 5% 50V			
*	1-672-195-11	LED (PANEL) BOARD	*****			C165	1-136-159-00	FILM 0.033uF 5% 50V			
< DIODE >						C166	1-130-473-00	MYLAR 0.0015uF 5% 50V			
D671	8-719-058-03	DIODE SEL5423E-TP15 (DISC TABLE)				C167	1-136-153-00	FILM 0.01uF 5% 50V			
D672	8-719-058-03	DIODE SEL5423E-TP15 (DISC TABLE)				C168	1-163-129-00	CERAMIC CHIP 330PF 5% 50V			
D673	8-719-058-03	DIODE SEL5423E-TP15 (DISC TABLE)				C169	1-130-479-00	MYLAR 0.0047uF 5% 50V			
D674	8-719-058-03	DIODE SEL5423E-TP15 (DISC TABLE)				C170	1-130-477-00	MYLAR 0.0033uF 5% 50V			
D675	8-719-058-03	DIODE SEL5423E-TP15 (DISC TABLE)				C171	1-126-964-11	ELECT 10uF 20% 50V			
						C172	1-163-006-11	CERAMIC CHIP 560PF 10% 50V			
						C173	1-136-169-00	FILM 0.22uF 5% 50V			
						C174	1-136-169-00	FILM 0.22uF 5% 50V			
						C175	1-126-964-11	ELECT 10uF 20% 50V			
						C176	1-136-495-11	FILM 0.068uF 5% 50V			
						C177	1-136-153-00	FILM 0.01uF 5% 50V			
						C181	1-163-038-91	CERAMIC CHIP 0.1uF 25V			
						C182	1-163-038-91	CERAMIC CHIP 0.1uF 25V			
						C183	1-163-038-91	CERAMIC CHIP 0.1uF 25V			
						C191	1-163-031-11	CERAMIC CHIP 0.01uF 50V			
						C193	1-126-964-11	ELECT 10uF 20% 50V			

MAIN

Ref. No.	Part No.	Description			Remark
C201	1-126-964-11	ELECT	10uF	20%	50V
C202	1-126-964-11	ELECT	10uF	20%	50V
C203	1-126-959-11	ELECT	0.47uF	20%	50V
C204	1-126-959-11	ELECT	0.47uF	20%	50V
C205	1-136-165-00	FILM	0.1uF	5%	50V
C206	1-136-165-00	FILM	0.1uF	5%	50V
C207	1-126-959-11	ELECT	0.47uF	20%	50V
C208	1-126-959-11	ELECT	0.47uF	20%	50V
C213	1-136-165-00	FILM	0.1uF	5%	50V
C214	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C215	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C216	1-126-960-11	ELECT	1uF	20%	50V
C217	1-130-479-00	MYLAR	0.0047uF	5%	50V
C218	1-130-471-00	MYLAR	0.001uF	5%	50V
C219	1-136-165-00	FILM	0.1uF	5%	50V
C220	1-136-169-00	FILM	0.22uF	5%	50V
C221	1-136-169-00	FILM	0.22uF	5%	50V
C222	1-136-165-00	FILM	0.1uF	5%	50V
C223	1-130-479-00	MYLAR	0.0047uF	5%	50V
C224	1-130-471-00	MYLAR	0.001uF	5%	50V
C225	1-126-960-11	ELECT	1uF	20%	50V
C226	1-130-480-00	MYLAR	0.0056uF	5%	50V
C227	1-136-161-00	FILM	0.047uF	5%	50V
C228	1-136-175-00	FILM	0.68uF	5%	50V
C229	1-136-169-00	FILM	0.22uF	5%	50V
C230	1-136-169-00	FILM	0.22uF	5%	50V
C231	1-126-963-11	ELECT	4.7uF	20%	50V
C232	1-126-963-11	ELECT	4.7uF	20%	50V
C233	1-136-169-00	FILM	0.22uF	5%	50V
C234	1-136-169-00	FILM	0.22uF	5%	50V
C235	1-136-165-00	FILM	0.1uF	5%	50V
C236	1-136-161-00	FILM	0.047uF	5%	50V
C237	1-136-161-00	FILM	0.047uF	5%	50V
C238	1-136-165-00	FILM	0.1uF	5%	50V
C239	1-136-165-00	FILM	0.1uF	5%	50V
C240	1-136-157-00	FILM	0.022uF	5%	50V
C241	1-136-157-00	FILM	0.022uF	5%	50V
C242	1-136-165-00	FILM	0.1uF	5%	50V
C243	1-130-469-00	MYLAR	680PF	5%	50V
C244	1-136-153-00	FILM	0.01uF	5%	50V
C245	1-136-153-00	FILM	0.01uF	5%	50V
C246	1-130-469-00	MYLAR	680PF	5%	50V
C247	1-136-153-00	FILM	0.01uF	5%	50V
C248	1-136-153-00	FILM	0.01uF	5%	50V
C249	1-104-664-11	ELECT	47uF	20%	16V
C250	1-130-481-00	MYLAR	0.0068uF	5%	50V
C251	1-126-963-11	ELECT	4.7uF	20%	50V
C252	1-126-934-11	ELECT	220uF	20%	16V
C253	1-126-934-11	ELECT	220uF	20%	16V
C255	1-126-964-11	ELECT	10uF	20%	50V
C256	1-126-964-11	ELECT	10uF	20%	50V
C262	1-126-964-11	ELECT	10uF	20%	50V
C264	1-163-009-11	CERAMIC	1000P	10%	50V
C301	1-126-960-11	ELECT	1uF	20%	50V
C302	1-130-479-00	MYLAR	0.0047uF	5%	50V
C303	1-136-165-00	FILM	0.1uF	5%	50V
C304	1-136-165-00	FILM	0.1uF	5%	50V

Ref. No.	Part No.	Description			Remark
C305	1-126-964-11	ELECT	10uF	20%	50V
C306	1-126-960-11	ELECT	1uF	20%	50V
C307	1-126-959-11	ELECT	0.47uF	20%	50V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-137-194-81	FILM	0.47uF	5%	50V
C310	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-959-11	ELECT	0.47uF	20%	50V
C313	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C314	1-126-964-11	ELECT	10uF	20%	50V
C315	1-126-963-11	ELECT	4.7uF	20%	50V
C316	1-104-665-11	ELECT	100uF	20%	10V
C317	1-104-665-11	ELECT	100uF	20%	10V
C320	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C333	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C334	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C351	1-126-960-11	ELECT	1uF	20%	50V
C352	1-130-479-00	MYLAR	0.0047uF	5%	50V
C353	1-136-165-00	FILM	0.1uF	5%	50V
C354	1-136-165-00	FILM	0.1uF	5%	50V
C355	1-126-964-11	ELECT	10uF	20%	50V
C356	1-126-960-11	ELECT	1uF	20%	50V
C357	1-126-959-11	ELECT	0.47uF	20%	50V
C358	1-126-964-11	ELECT	10uF	20%	50V
C359	1-137-194-81	FILM	0.47uF	5%	50V
C401	1-126-961-11	ELECT	2.2uF	20%	50V
C411	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C412	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C413	1-126-916-11	ELECT	1000uF	20%	6.3V
C414	1-126-916-11	ELECT	1000uF	20%	6.3V
C415	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C416	1-126-925-11	ELECT	470uF	20%	10V
C431	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C451	1-126-961-11	ELECT	2.2uF	20%	50V
C510	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C511	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C516	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C562	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C564	1-104-665-11	ELECT	100uF	20%	10V
C598	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C599	1-104-665-11	ELECT	100uF	20%	10V
C601	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C602	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C603	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C604	1-126-961-11	ELECT	2.2uF	20%	50V
C604	1-126-963-11	ELECT	4.7uF	20%	50V
C605	1-130-479-00	MYLAR	0.0047uF	5%	50V
C606	1-130-473-00	MYLAR	0.0015uF	5%	50V
C607	1-136-159-00	FILM	0.033uF	5%	50V
C607	1-136-165-00	FILM	0.1uF	5%	50V
C608	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C609	1-126-933-11	ELECT	100uF	20%	16V
C651	1-163-003-11	CERAMIC CHIP	330PF	10%	50V

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description	Remark
C652	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		CN412	1-785-321-11	PIN, CONNECTOR (STRAIGHT) 9P	
C653	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		CN431	1-784-776-11	CONNECTOR, FFC 15P	
C654	1-126-961-11	ELECT	2.2uF	20%	50V					
						(DR7AV)				
C654	1-126-963-11	ELECT	4.7uF	20%	50V	(XB800AV)	CN441	1-750-745-11	CONNECTOR, FFC/FPC 13P (DR7AV)	
							CN441	1-750-747-11	CONNECTOR, FFC/FPC 15P (XB800AV)	
							CN452	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P	
C655	1-130-479-00	MYLAR	0.0047uF	5%	50V		CN702	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	
							CN901	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P	
C656	1-130-473-00	MYLAR	0.0015uF	5%	50V		* CN902	1-770-729-11	CONNECTOR, BOARD TO BOARD 10P (DR7AV)	
C657	1-136-159-00	FILM	0.033uF	5%	50V	(DR7AV)	CN902	1-770-731-11	CONNECTOR, BOARD TO BOARD 12P (XB800AV)	
						(XB800AV)	* CN903	1-564-518-11	PLUG, CONNECTOR 3P (DR7AV)	
C657	1-136-165-00	FILM	0.1uF	5%	50V					
C658	1-163-031-11	CERAMIC CHIP	0.01uF		50V				< DIODE >	
C659	1-126-933-11	ELECT	100uF	20%	16V					
C701	1-163-001-11	CERAMIC CHIP	220PF	10%	50V		D191	8-719-988-61	DIODE 1SS355TE-17	
C702	1-163-001-11	CERAMIC CHIP	220PF	10%	50V		D192	8-719-988-61	DIODE 1SS355TE-17	
C703	1-163-001-11	CERAMIC CHIP	220PF	10%	50V		D333	8-719-988-61	DIODE 1SS355TE-17	
C721	1-126-960-11	ELECT	1uF	20%	50V		D334	8-719-988-61	DIODE 1SS355TE-17	
C722	1-126-926-11	ELECT	1000uF	20%	10V		D335	8-719-988-61	DIODE 1SS355TE-17	
C724	1-163-005-11	CERAMIC CHIP	470PF	10%	50V		D336	8-719-988-61	DIODE 1SS355TE-17	
C751	1-163-001-11	CERAMIC CHIP	220PF	10%	50V		D501	8-719-988-61	DIODE 1SS355TE-17	
C752	1-163-001-11	CERAMIC CHIP	220PF	10%	50V		D534	8-719-988-61	DIODE 1SS355TE-17	
C753	1-163-001-11	CERAMIC CHIP	220PF	10%	50V		D544	8-719-988-61	DIODE 1SS355TE-17	
C772	1-163-038-91	CERAMIC CHIP	0.1uF		25V		D801	8-719-988-61	DIODE 1SS355TE-17	
C774	1-163-038-91	CERAMIC CHIP	0.1uF		25V		D802	8-719-988-61	DIODE 1SS355TE-17	
C777	1-163-038-91	CERAMIC CHIP	0.1uF		25V		D803	8-719-988-61	DIODE 1SS355TE-17	
C782	1-104-665-11	ELECT	100uF	20%	10V		D804	8-719-988-61	DIODE 1SS355TE-17	
C803	1-126-964-11	ELECT	10uF	20%	50V		D805	8-719-988-61	DIODE 1SS355TE-17	
C804	1-136-165-00	FILM	0.1uF	5%	50V		D806	8-719-988-61	DIODE 1SS355TE-17	
C805	1-136-165-00	FILM	0.1uF	5%	50V		D807	8-719-988-61	DIODE 1SS355TE-17	
C806	1-126-916-11	ELECT	1000uF	20%	6.3V		D808	8-719-053-18	DIODE 1SR154-400TE-25	
C808	1-109-953-11	ELECT	2.2uF	20%	50V		D911	8-719-988-61	DIODE 1SS355TE-17	
C902	1-126-937-11	ELECT	4700uF	20%	16V		D912	8-719-210-33	DIODE EC10DS2	
C903	1-126-964-11	ELECT	10uF	20%	50V		D913	8-719-210-33	DIODE EC10DS2	
C904	1-126-964-11	ELECT	10uF	20%	50V		D931	8-719-210-33	DIODE EC10DS2	
C905	1-126-924-11	ELECT	330uF	20%	10V		D951	8-719-988-61	DIODE 1SS355TE-17	
C911	1-126-964-11	ELECT	10uF	20%	50V				< FERRITE BEAD >	
C912	1-126-916-11	ELECT	1000uF	20%	6.3V					
C913	1-104-665-11	ELECT	100uF	20%	10V		FB412	1-414-772-11	FERRITE 0UH	
							FB413	1-414-551-11	FERRITE 0UH	
C914	1-126-916-11	ELECT	1000uF	20%	6.3V		FB415	1-414-772-11	FERRITE 0UH	
C932	1-126-964-11	ELECT	10uF	20%	50V				< FLUORESCENT INDICATOR >	
C933	1-126-933-11	ELECT	100uF	20%	16V					
C934	1-126-964-11	ELECT	10uF	20%	50V		FL201	1-233-289-21	FILTER, EMI (SMD)	
C935	1-126-767-11	ELECT	1000uF	20%	16V		FL501	1-233-289-21	FILTER, EMI (SMD)	
							FL502	1-233-289-21	FILTER, EMI (SMD)	
C936	1-126-964-11	ELECT	10uF	20%	50V		FL503	1-233-289-21	FILTER, EMI (SMD)	
C937	1-104-665-11	ELECT	100uF	20%	10V				< IC >	
C938	1-126-933-11	ELECT	100uF	20%	16V					
C952	1-126-943-11	ELECT	2200uF	20%	25V		IC101	8-759-571-54	IC M62493FP	
C953	1-126-964-11	ELECT	10uF	20%	50V		IC181	8-759-009-06	IC MC14052BF	
							IC191	8-759-571-53	IC BA7615N	
C954	1-126-964-11	ELECT	10uF	20%	50V		IC201	8-759-571-52	IC M62464AFP	
C955	1-126-924-11	ELECT	330uF	20%	10V		IC301	8-759-495-26	IC HA12215	
C961	1-163-038-91	CERAMIC CHIP	0.1uF		25V	(DR7AV)				
		< CONNECTOR >								
CN303	1-784-776-11	CONNECTOR, FFC 15P					IC501	8-759-588-90	IC M30622MA-A08FP	
CN304	1-784-778-11	CONNECTOR, FFC 17P					IC601	8-759-636-55	IC M5218AFP	
CN411	1-784-780-11	CONNECTOR, FFC 19P					IC781	8-749-923-04	IC TOTX178	
							IC801	8-759-635-63	IC M51943BSL	
							IC901	8-759-604-86	IC M5F7807L	

MAIN

Ref. No.	Part No.	Description	Remark
IC911	8-759-231-53	IC TA7805S	
IC931	8-759-604-38	IC M5F78M10	
IC932	8-759-701-79	IC NJM7812FA	
IC933	8-759-604-86	IC M5F7807L	
IC951	8-759-604-90	IC M5F7907L	
< JACK >			
J701	1-766-558-41	JACK, PIN 8P (VIDEO1 (AUDIO) IN, PHONO IN, MD IN/OUT)	
J702	1-770-336-11	JACK, PIN 2P (VIDEO1 (VIDEO) IN, VIDEO OUT)	
< JUMPER RESISTOR >			
JR1	1-216-295-91	SHORT	0
JR2	1-216-296-91	SHORT	0
JR3	1-216-296-91	SHORT	0
JR4	1-216-295-91	SHORT	0
JR5	1-216-295-91	SHORT	0
JR6	1-216-296-91	SHORT	0
JR7	1-216-296-91	SHORT	0
JR8	1-216-296-91	SHORT	0
JR9	1-216-296-91	SHORT	0
JR10	1-216-296-91	SHORT	0
JR11	1-216-296-91	SHORT	0
JR181	1-216-295-91	SHORT	0
JR182	1-216-295-91	SHORT	0
JR191	1-216-295-91	SHORT	0
JR192	1-216-295-91	SHORT	0
JR594	1-216-295-91	SHORT	0
JR703	1-216-295-91	SHORT	0
JR901	1-216-295-91	SHORT	0
JR907	1-216-295-91	SHORT	0 (DR7AV)
JR910	1-216-296-91	SHORT	0 (XB800AV)
< COIL >			
L201	1-412-032-11	INDUCTOR CHIP	100uH
L781	1-412-032-11	INDUCTOR CHIP	100uH
< TRANSISTOR >			
Q111	8-729-620-05	TRANSISTOR	2SC2603-EF
Q112	8-729-620-05	TRANSISTOR	2SC2603-EF
Q113	8-729-141-30	TRANSISTOR	2SC3623A-LK
Q115	8-729-029-86	TRANSISTOR	DTC124ESA
Q161	8-729-620-05	TRANSISTOR	2SC2603-EF
Q162	8-729-620-05	TRANSISTOR	2SC2603-EF
Q163	8-729-141-30	TRANSISTOR	2SC3623A-LK
Q165	8-729-029-86	TRANSISTOR	DTC124ESA
Q271	8-729-141-30	TRANSISTOR	2SC3623A-LK
Q281	8-729-141-30	TRANSISTOR	2SC3623A-LK
Q331	8-729-118-00	TRANSISTOR	2SB1116-L
Q332	8-729-029-66	TRANSISTOR	DTC114ESA
Q333	8-729-118-00	TRANSISTOR	2SB1116-L
Q334	8-729-029-66	TRANSISTOR	DTC114ESA
Q335	8-729-029-66	TRANSISTOR	DTC114ESA
Q336	8-729-116-59	TRANSISTOR	2SB1068TP
Q337	8-729-045-21	TRANSISTOR	2SD1513TP-LK
Q338	8-729-029-21	TRANSISTOR	DTA114ESA-TP
Q339	8-729-029-66	TRANSISTOR	DTC114ESA

Ref. No.	Part No.	Description	Remark
Q340	8-729-116-59	TRANSISTOR	2SB1068TP
Q341	8-729-045-21	TRANSISTOR	2SD1513TP-LK
Q342	8-729-029-21	TRANSISTOR	DTA114ESA-TP
Q343	8-729-029-66	TRANSISTOR	DTC114ESA
Q801	8-729-620-05	TRANSISTOR	2SC2603-EF
Q802	8-729-029-21	TRANSISTOR	DTA114ESA-TP
Q803	8-729-029-21	TRANSISTOR	DTA114ESA-TP
Q804	8-729-029-40	TRANSISTOR	DTA124ESA
Q901	8-729-040-20	TRANSISTOR	RT1P137L-TP
Q902	8-729-029-40	TRANSISTOR	DTA124ESA
Q903	8-729-040-19	TRANSISTOR	RT1N137L-TP
Q904	8-729-029-86	TRANSISTOR	DTC124ESA
Q905	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q906	8-729-029-68	TRANSISTOR	DTC114TSA
Q911	8-729-040-20	TRANSISTOR	RT1P137L-TP
Q912	8-729-029-86	TRANSISTOR	DTC124ESA
Q913	8-729-040-20	TRANSISTOR	RT1P137L-TP
Q914	8-729-029-86	TRANSISTOR	DTC124ESA
Q931	8-729-040-20	TRANSISTOR	RT1P137L-TP
Q932	8-729-029-86	TRANSISTOR	DTC124ESA
Q961	8-729-620-05	TRANSISTOR	2SC2603-EF (DR7AV)
Q962	8-729-118-00	TRANSISTOR	2SB1116-L (DR7AV)
< RESISTOR >			
R111	1-216-073-00	METAL CHIP	10K 5% 1/10W
R112	1-216-121-91	RES,CHIP	1M 5% 1/10W
R113	1-216-101-00	METAL CHIP	150K 5% 1/10W
R113	1-216-103-00	METAL CHIP	180K 5% 1/10W (XB800AV)
R114	1-216-043-91	RES,CHIP	560 5% 1/10W (DR7AV)
R115	1-216-073-00	METAL CHIP	10K 5% 1/10W
R116	1-216-091-00	METAL CHIP	56K 5% 1/10W
R117	1-216-073-00	METAL CHIP	10K 5% 1/10W
R118	1-216-089-91	RES,CHIP	47K 5% 1/10W
R119	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R120	1-216-097-91	RES,CHIP	100K 5% 1/10W
R121	1-216-073-00	METAL CHIP	10K 5% 1/10W
R122	1-216-295-91	SHORT	0
R123	1-216-101-00	METAL CHIP	150K 5% 1/10W (XB800AV)
R123	1-216-107-00	METAL CHIP	270K 5% 1/10W (DR7AV)
R124	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R125	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R126	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R127	1-216-101-00	METAL CHIP	150K 5% 1/10W (XB800AV)
R127	1-216-111-00	METAL CHIP	390K 5% 1/10W (DR7AV)
R129	1-216-121-91	RES,CHIP	1M 5% 1/10W
R131	1-216-025-91	RES,CHIP	100 5% 1/10W
R132	1-216-025-91	RES,CHIP	100 5% 1/10W
R133	1-216-025-91	RES,CHIP	100 5% 1/10W
R161	1-216-073-00	METAL CHIP	10K 5% 1/10W
R162	1-216-121-91	RES,CHIP	1M 5% 1/10W
R163	1-216-101-00	METAL CHIP	150K 5% 1/10W (XB800AV)

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R163	1-216-103-00	METAL CHIP	180K	5%	1/10W (DR7AV)	R318	1-216-073-00	METAL CHIP	10K	5%	1/10W
R164	1-216-043-91	RES,CHIP	560	5%	1/10W	R319	1-216-111-00	METAL CHIP	390K	5%	1/10W
R165	1-216-073-00	METAL CHIP	10K	5%	1/10W	R321	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
						R322	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R166	1-216-091-00	METAL CHIP	56K	5%	1/10W	R332	1-216-045-00	METAL CHIP	680	5%	1/10W
R167	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R168	1-216-089-91	RES,CHIP	47K	5%	1/10W	R333	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R169	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R334	1-216-045-00	METAL CHIP	680	5%	1/10W
R170	1-216-097-91	RES,CHIP	100K	5%	1/10W	R335	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
						R336	1-216-089-91	RES,CHIP	47K	5%	1/10W
R171	1-216-073-00	METAL CHIP	10K	5%	1/10W	R337	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R172	1-216-295-91	SHORT	0								
R173	1-216-101-00	METAL CHIP	150K	5%	1/10W (XB800AV)	R338	1-216-045-00	METAL CHIP	680	5%	1/10W
						R339	1-216-089-91	RES,CHIP	47K	5%	1/10W
R173	1-216-107-00	METAL CHIP	270K	5%	1/10W (DR7AV)	R340	1-216-089-91	RES,CHIP	47K	5%	1/10W
						R341	1-216-045-00	METAL CHIP	680	5%	1/10W
R174	1-216-073-00	METAL CHIP	10K	5%	1/10W	R342	1-216-089-91	RES,CHIP	47K	5%	1/10W
R175	1-216-097-91	RES,CHIP	100K	5%	1/10W	R343	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R177	1-216-101-00	METAL CHIP	150K	5%	1/10W (XB800AV)	R344	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
						R345	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R177	1-216-111-00	METAL CHIP	390K	5%	1/10W (DR7AV)	R346	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
						R347	1-216-045-00	METAL CHIP	680	5%	1/10W
R178	1-216-057-00	METAL CHIP	2.2K	5%	1/10W						
R179	1-216-121-91	RES,CHIP	1M	5%	1/10W	R348	1-216-045-00	METAL CHIP	680	5%	1/10W
						R351	1-216-085-00	METAL CHIP	33K	5%	1/10W
R201	1-216-025-91	RES,CHIP	100	5%	1/10W	R352	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R202	1-216-025-91	RES,CHIP	100	5%	1/10W	R353	1-216-025-91	RES,CHIP	100	5%	1/10W
R203	1-216-041-11	RES,CHIP	470	5%	1/10W	R354	1-216-025-91	RES,CHIP	100	5%	1/10W
R204	1-216-109-00	METAL CHIP	330K	5%	1/10W						
R205	1-216-089-91	RES,CHIP	47K	5%	1/10W	R355	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
						R356	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R206	1-216-101-00	METAL CHIP	150K	5%	1/10W	R357	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R207	1-216-094-00	RES,CHIP	75K	5%	1/10W	R358	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R208	1-216-089-91	RES,CHIP	47K	5%	1/10W	R359	1-216-085-00	METAL CHIP	33K	5%	1/10W
R209	1-216-101-00	METAL CHIP	150K	5%	1/10W						
R210	1-216-094-00	RES,CHIP	75K	5%	1/10W	R371	1-216-089-91	RES,CHIP	47K	5%	1/10W
						R372	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R211	1-216-097-91	RES,CHIP	100K	5%	1/10W	R373	1-216-049-91	RES,CHIP	1K	5%	1/10W
R212	1-216-097-91	RES,CHIP	100K	5%	1/10W	R374	1-216-089-91	RES,CHIP	47K	5%	1/10W
R213	1-216-097-91	RES,CHIP	100K	5%	1/10W	R375	1-216-094-00	RES,CHIP	75K	5%	1/10W
R214	1-216-097-91	RES,CHIP	100K	5%	1/10W						
R271	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R376	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
						R377	1-216-089-91	RES,CHIP	47K	5%	1/10W
R272	1-216-097-91	RES,CHIP	100K	5%	1/10W	R378	1-216-094-00	RES,CHIP	75K	5%	1/10W
R273	1-216-073-00	METAL CHIP	10K	5%	1/10W	R401	1-216-025-91	RES,CHIP	100	5%	1/10W
R281	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R402	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R282	1-216-097-91	RES,CHIP	100K	5%	1/10W						
R283	1-216-073-00	METAL CHIP	10K	5%	1/10W	R413	1-216-295-91	SHORT	0		
						R414	1-216-295-91	SHORT	0		
R301	1-216-085-00	METAL CHIP	33K	5%	1/10W	R451	1-216-025-91	RES,CHIP	100	5%	1/10W
R302	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R452	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R303	1-216-025-91	RES,CHIP	100	5%	1/10W	R501	1-216-025-91	RES,CHIP	100	5%	1/10W
R304	1-216-025-91	RES,CHIP	100	5%	1/10W						
R305	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R503	1-216-025-91	RES,CHIP	100	5%	1/10W
						R504	1-216-025-91	RES,CHIP	100	5%	1/10W
R306	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	R505	1-216-025-91	RES,CHIP	100	5%	1/10W
R307	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	R511	1-216-109-00	METAL CHIP	330K	5%	1/10W
R308	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R513	1-216-295-91	SHORT	0		
R309	1-216-081-00	METAL CHIP	22K	5%	1/10W						
R311	1-216-121-91	RES,CHIP	1M	5%	1/10W	R517	1-216-073-00	METAL CHIP	10K	5%	1/10W
						R518	1-216-025-91	RES,CHIP	100	5%	1/10W
R312	1-216-102-00	RES,CHIP	160K	5%	1/10W	R519	1-216-025-91	RES,CHIP	100	5%	1/10W
R313	1-216-097-91	RES,CHIP	100K	5%	1/10W	R520	1-216-025-91	RES,CHIP	100	5%	1/10W
R315	1-216-073-00	METAL CHIP	10K	5%	1/10W						(XB800AV)
R316	1-216-079-00	METAL CHIP	18K	5%	1/10W	R521	1-216-025-91	RES,CHIP	100	5%	1/10W (XB800AV)
R317	1-216-073-00	METAL CHIP	10K	5%	1/10W						

MAIN

Ref. No.	Part No.	Description			Remark
R522	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R523	1-216-025-91	RES,CHIP	100	5%	1/10W
R524	1-216-025-91	RES,CHIP	100	5%	1/10W
R525	1-216-025-91	RES,CHIP	100	5%	1/10W
R526	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R527	1-216-025-91	RES,CHIP	100	5%	1/10W
R528	1-216-025-91	RES,CHIP	100	5%	1/10W
R529	1-216-025-91	RES,CHIP	100	5%	1/10W
R530	1-216-025-91	RES,CHIP	100	5%	1/10W
R532	1-216-025-91	RES,CHIP	100	5%	1/10W
R533	1-216-025-91	RES,CHIP	100	5%	1/10W
R535	1-216-025-91	RES,CHIP	100	5%	1/10W
R536	1-216-025-91	RES,CHIP	100	5%	1/10W
R537	1-216-025-91	RES,CHIP	100	5%	1/10W
R538	1-216-025-91	RES,CHIP	100	5%	1/10W
R540	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R541	1-216-073-00	METAL CHIP	10K	5%	1/10W
R542	1-216-025-91	RES,CHIP	100	5%	1/10W
R543	1-216-025-91	RES,CHIP	100	5%	1/10W
R545	1-216-025-91	RES,CHIP	100	5%	1/10W
R546	1-216-025-91	RES,CHIP	100	5%	1/10W
R547	1-216-025-91	RES,CHIP	100	5%	1/10W
R548	1-216-025-91	RES,CHIP	100	5%	1/10W
R549	1-216-041-00	METAL CHIP	470	5%	1/10W
R550	1-216-025-91	RES,CHIP	100	5%	1/10W
R551	1-216-025-91	RES,CHIP	100	5%	1/10W
R552	1-216-025-91	RES,CHIP	100	5%	1/10W
R553	1-216-025-91	RES,CHIP	100	5%	1/10W
R554	1-216-025-91	RES,CHIP	100	5%	1/10W
R555	1-216-025-91	RES,CHIP	100	5%	1/10W
R556	1-216-025-91	RES,CHIP	100	5%	1/10W
R557	1-216-025-91	RES,CHIP	100	5%	1/10W
R558	1-216-025-91	RES,CHIP	100	5%	1/10W
R559	1-216-025-91	RES,CHIP	100	5%	1/10W
R561	1-216-025-91	RES,CHIP	100	5%	1/10W
R563	1-216-025-91	RES,CHIP	100	5%	1/10W
R565	1-216-025-91	RES,CHIP	100	5%	1/10W
R567	1-216-073-00	METAL CHIP	10K	5%	1/10W
R568	1-216-025-91	RES,CHIP	100	5%	1/10W
R569	1-216-025-91	RES,CHIP	100	5%	1/10W
R570	1-216-089-91	RES,CHIP	47K	5%	1/10W
R572	1-216-025-91	RES,CHIP	100	5%	1/10W
R573	1-216-025-91	RES,CHIP	100	5%	1/10W
R574	1-216-025-91	RES,CHIP	100	5%	1/10W
R575	1-216-025-91	RES,CHIP	100	5%	1/10W
R576	1-216-025-91	RES,CHIP	100	5%	1/10W
R577	1-216-025-91	RES,CHIP	100	5%	1/10W
R578	1-216-025-91	RES,CHIP	100	5%	1/10W
R579	1-216-025-91	RES,CHIP	100	5%	1/10W
R580	1-216-025-91	RES,CHIP	100	5%	1/10W
R581	1-216-025-91	RES,CHIP	100	5%	1/10W
R582	1-216-025-91	RES,CHIP	100	5%	1/10W
R583	1-216-025-91	RES,CHIP	100	5%	1/10W
R584	1-216-025-91	RES,CHIP	100	5%	1/10W
R585	1-216-025-91	RES,CHIP	100	5%	1/10W
R586	1-216-025-91	RES,CHIP	100	5%	1/10W
R587	1-216-025-91	RES,CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R588	1-216-025-91	RES,CHIP	100	5%	1/10W
R589	1-216-025-91	RES,CHIP	100	5%	1/10W
R590	1-216-025-91	RES,CHIP	100	5%	1/10W
R591	1-216-025-91	RES,CHIP	100	5%	1/10W
R593	1-216-025-91	RES,CHIP	100	5%	1/10W
R594	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R595	1-216-089-91	RES,CHIP	47K	5%	1/10W
R596	1-216-069-00	METAL CHIP	6.8K	5%	1/10W (XB800AV)
R596	1-216-089-91	RES,CHIP	47K	5%	1/10W (DR7AV)
R597	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (DR7AV)
R597	1-216-089-91	RES,CHIP	47K	5%	1/10W (XB800AV)
R600	1-216-025-91	RES,CHIP	100	5%	1/10W
R601	1-216-049-91	RES,CHIP	1K	5%	1/10W
R602	1-216-049-91	RES,CHIP	1K	5%	1/10W
R603	1-216-089-91	RES,CHIP	47K	5%	1/10W
R604	1-216-047-91	RES,CHIP	820	5%	1/10W (XB800AV)
R604	1-216-049-91	RES,CHIP	1K	5%	1/10W (DR7AV)
R605	1-216-115-00	METAL CHIP	560K	5%	1/10W
R606	1-216-089-91	RES,CHIP	47K	5%	1/10W
R607	1-216-049-91	RES,CHIP	1K	5%	1/10W
R608	1-216-097-91	RES,CHIP	100K	5%	1/10W
R609	1-216-033-00	METAL CHIP	220	5%	1/10W
R651	1-216-049-91	RES,CHIP	1K	5%	1/10W
R652	1-216-049-91	RES,CHIP	1K	5%	1/10W
R653	1-216-089-91	RES,CHIP	47K	5%	1/10W
R654	1-216-047-91	RES,CHIP	820	5%	1/10W (XB800AV)
R654	1-216-049-91	RES,CHIP	1K	5%	1/10W (DR7AV)
R655	1-216-115-00	METAL CHIP	560K	5%	1/10W
R656	1-216-089-91	RES,CHIP	47K	5%	1/10W
R657	1-216-049-91	RES,CHIP	1K	5%	1/10W
R658	1-216-097-91	RES,CHIP	100K	5%	1/10W
R659	1-216-033-00	METAL CHIP	220	5%	1/10W
R701	1-216-049-91	RES,CHIP	1K	5%	1/10W
R702	1-216-097-91	RES,CHIP	100K	5%	1/10W
R703	1-216-049-91	RES,CHIP	1K	5%	1/10W
R704	1-216-097-91	RES,CHIP	100K	5%	1/10W
R705	1-216-049-91	RES,CHIP	1K	5%	1/10W
R706	1-216-097-91	RES,CHIP	100K	5%	1/10W
R721	1-216-022-00	METAL CHIP	75	5%	1/10W
R722	1-216-015-00	METAL CHIP	39	5%	1/10W
R724	1-216-073-00	METAL CHIP	10K	5%	1/10W
R751	1-216-049-91	RES,CHIP	1K	5%	1/10W
R752	1-216-097-91	RES,CHIP	100K	5%	1/10W
R753	1-216-049-91	RES,CHIP	1K	5%	1/10W
R754	1-216-097-91	RES,CHIP	100K	5%	1/10W
R755	1-216-049-91	RES,CHIP	1K	5%	1/10W
R756	1-216-097-91	RES,CHIP	100K	5%	1/10W
R801	1-216-049-91	RES,CHIP	1K	5%	1/10W
R802	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R803	1-216-025-91	RES,CHIP	100	5%	1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R804	1-216-089-91	RES,CHIP	47K 5% 1/10W	C433	1-126-962-11	ELECT	3.3uF 20% 50V (DR7AV)
R805	1-216-089-91	RES,CHIP	47K 5% 1/10W	C801	1-128-582-11	ELECT	10uF 20% 100V
R806	1-216-073-00	METAL CHIP	10K 5% 1/10W	C802	1-162-292-31	CERAMIC	680PF 10% 50V
R807	1-216-073-00	METAL CHIP	10K 5% 1/10W	C803	1-162-286-31	CERAMIC	220PF 10% 50V
R808	1-216-049-91	RES,CHIP	1K 5% 1/10W	C804	1-126-967-11	ELECT	47uF 20% 50V
R809	1-216-097-91	RES,CHIP	100K 5% 1/10W	C807	1-128-560-11	ELECT	22uF 20% 100V
R810	1-216-033-00	METAL CHIP	220 5% 1/10W	C808	1-130-777-00	FILM	0.1uF 10% 100V
R811	1-216-097-91	RES,CHIP	100K 5% 1/10W	C809	1-130-777-00	FILM	0.1uF 10% 100V
R901	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	C810	1-128-562-11	ELECT	47uF 20% 100V (DR7AV)
R902	1-216-081-00	METAL CHIP	22K 5% 1/10W	C810	1-128-578-11	ELECT	1uF 20% 100V (XB800AV)
R903	1-216-049-91	RES,CHIP	1K 5% 1/10W	C811	1-130-493-00	MYLAR	0.068uF 5% 50V
R961	1-216-065-91	RES,CHIP	4.7K 5% 1/10W (DR7AV)	C812	1-130-493-00	MYLAR	0.068uF 5% 50V
R962	1-216-079-00	RES,CHIP	18K 5% 1/10W (DR7AV)	C813	1-161-494-00	CERAMIC	0.022uF 25V
R963	1-216-057-00	METAL CHIP	2.2K 5% 1/10W (DR7AV)	C814	1-162-294-31	CERAMIC	0.001uF 10% 50V
< VARIABLE RESISTOR >				C815	1-128-562-11	ELECT	47uF 20% 100V
RV301	1-238-600-11	RES, ADJ, CARBON 10K		C830	1-107-714-11	ELECT	10uF 20% 50V
RV351	1-238-600-11	RES, ADJ, CARBON 10K		C831	1-126-964-11	ELECT	10uF 20% 50V
< VIBRATOR >				C832	1-126-967-11	ELECT	47uF 20% 50V
X501	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)		C841	1-127-751-11	ELECT	3300uF 20% 50V (XB800AV)
X502	1-781-107-21	VIBRATOR, SERAMIC (16MHZ)		C842	1-127-752-11	ELECT	3300uF 20% 63V (XB800AV)
*****				C844	1-130-777-00	FILM	0.1uF 10% 100V
*	A-4417-477-A	PA BOARD, COMPLETE (XB800AV)	*****	C845	1-126-943-11	ELECT	2200uF 20% 25V
				C847	1-164-159-11	CERAMIC	0.1uF 50V
				C848	1-164-159-11	CERAMIC	0.1uF 50V
				C849	1-164-159-11	CERAMIC	0.1uF 50V
*	A-4417-479-A	PA BOARD, COMPLETE (DR7AV)	*****	C850	1-107-721-11	ELECT	10uF 20% 100V
< CAPACITOR >				C851	1-128-582-11	ELECT	10uF 20% 100V
C401	1-126-963-11	ELECT	4.7uF 20% 50V	C852	1-162-292-31	CERAMIC	680PF 10% 50V
C402	1-164-159-11	CERAMIC	0.1uF 50V (XB800AV)	C853	1-162-286-31	CERAMIC	220PF 10% 50V
C403	1-164-159-11	CERAMIC	0.1uF 50V (XB800AV)	C854	1-126-967-11	ELECT	47uF 20% 50V
C404	1-164-159-11	CERAMIC	0.1uF 50V (XB800AV)	C857	1-128-560-11	ELECT	22uF 20% 100V
C405	1-164-159-11	CERAMIC	0.1uF 50V (XB800AV)	C858	1-164-159-11	CERAMIC	0.1uF 50V
C406	1-164-159-11	CERAMIC	0.1uF 50V (XB800AV)	C859	1-164-159-11	CERAMIC	0.1uF 50V
C407	1-164-159-11	CERAMIC	0.1uF 50V (XB800AV)	C861	1-130-493-00	MYLAR	0.068uF 5% 50V
C410	1-164-159-11	CERAMIC	0.1uF 50V (XB800AV)	C862	1-130-493-00	MYLAR	0.068uF 5% 50V
C411	1-164-159-11	CERAMIC	0.1uF 50V (XB800AV)	C863	1-126-961-11	ELECT	2.2uF 20% 50V (XB800AV)
C412	1-161-494-00	CERAMIC	0.022uF 25V	C891	1-127-751-11	ELECT	3300uF 20% 50V (XB800AV)
C413	1-161-494-00	CERAMIC	0.022uF 25V	C892	1-127-752-11	ELECT	3300uF 20% 63V (XB800AV)
C414	1-161-494-00	CERAMIC	0.022uF 25V	C895	1-107-721-11	ELECT	10uF 20% 100V
C415	1-161-494-00	CERAMIC	0.022uF 25V	C902	1-164-159-11	CERAMIC	0.1uF 50V (XB800AV)
C416	1-161-494-00	CERAMIC	0.022uF 25V	C903	1-126-933-11	ELECT	100uF 20% 16V (XB800AV)
C432	1-104-665-11	ELECT	100uF 20% 10V	C904	1-126-964-11	ELECT	10uF 20% 50V
C433	1-126-961-11	ELECT	2.2uF 20% 50V (XB800AV)	C905	1-126-948-11	ELECT	100uF 20% 35V
				C906	1-126-768-11	ELECT	2200uF 20% 16V (XB800AV)
				C908	1-164-159-11	CERAMIC	0.1uF 50V (XB800AV)
				C909	1-164-159-11	CERAMIC	0.1uF 50V (XB800AV)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C962	1-128-563-11	ELECT 100uF 20% 100V (XB800AV)		L405	1-420-872-00	COIL, AIR-CORE (XB800AV)	
< CONNECTOR >				< TRANSISTOR >			
CN803	1-778-981-11	CONNECTOR, BOARD TO BOARD 13P		Q401	8-729-029-21	TRANSISTOR DTA114ESA	
CN804	1-766-921-11	CONNECTOR, BOARD TO BOARD 10P (DR7AV)		Q402	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
* CN804	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P (XB800AV)		Q403	8-729-029-21	TRANSISTOR DTA114ESA	
< DIODE >				Q407	8-729-029-66	TRANSISTOR DTC114ESA	
D401	8-719-991-33	DIODE 1SS133T-77		Q431	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D402	8-719-991-33	DIODE 1SS133T-77		Q432	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D403	8-719-991-33	DIODE 1SS133T-77		Q433	8-729-620-05	TRANSISTOR 2SC2603-EF	
D405	8-719-991-33	DIODE 1SS133T-77		Q434	8-729-620-05	TRANSISTOR 2SC2603-EF	
D406	8-719-991-33	DIODE 1SS133T-77		Q437	8-729-620-05	TRANSISTOR 2SC2603-EF	
D407	8-719-991-33	DIODE 1SS133T-77		Q439	8-729-620-05	TRANSISTOR 2SC2603-EF	
D408	8-719-991-33	DIODE 1SS133T-77		Q801	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D410	8-719-991-33	DIODE 1SS133T-77		Q803	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
D801	8-719-991-33	DIODE 1SS133T-77		Q804	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D802	8-719-110-06	DIODE RD8.2ESB1		Q805	8-729-141-30	TRANSISTOR 2SC3623A-LK	
D803	8-719-991-33	DIODE 1SS133T-77		Q831	8-729-029-86	TRANSISTOR DTC124ESA	
D804	8-719-991-33	DIODE 1SS133T-77		Q832	8-729-620-05	TRANSISTOR 2SC2603-EF	
D805	8-719-991-33	DIODE 1SS133T-77		Q833	8-729-029-40	TRANSISTOR DTA124ESA	
D831	8-719-510-68	DIODE D5SBA20F01		Q834	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D833	8-719-200-82	DIODE 11ES2		Q851	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D834	8-719-200-82	DIODE 11ES2		Q855	8-729-141-30	TRANSISTOR 2SC3623A-LK	
D835	8-719-200-82	DIODE 11ES2		Q901	8-729-620-05	TRANSISTOR 2SC2603-EF (XB800AV)	
D836	8-719-200-82	DIODE 11ES2		Q902	8-729-040-19	TRANSISTOR RT1N137L-TP (XB800AV)	
D841	8-719-200-82	DIODE 11ES2 (XB800AV)		Q903	8-729-048-52	TRANSISTOR 2SA1932 (DR7AV)	
D842	8-719-200-82	DIODE 11ES2 (XB800AV)		Q903	8-729-118-01	TRANSISTOR 2SB1116-K (XB800AV)	
D843	8-719-200-82	DIODE 11ES2 (XB800AV)		Q904	8-729-620-05	TRANSISTOR 2SC2603-EF (DR7AV)	
D844	8-719-200-82	DIODE 11ES2 (XB800AV)		Q905	8-729-048-13	TRANSISTOR 2SC3616-KLM-T1 (XB800AV)	
D851	8-719-991-33	DIODE 1SS133T-77		Q906	8-729-029-21	TRANSISTOR DTA114ESA-TP (XB800AV)	
D852	8-719-110-06	DIODE RD8.2ESB1		Q907	8-729-029-21	TRANSISTOR DTA114ESA-TP (XB800AV)	
D853	8-719-991-33	DIODE 1SS133T-77 (XB800AV)		< RESISTOR >			
D902	8-719-210-21	DIODE 11EQS04 (XB800AV)		△ R401	1-216-453-11	METAL 270 1% 2W (DR7AV)	
D903	8-719-210-21	DIODE 11EQS04 (XB800AV)		△ R401	1-215-888-11	METAL OXIDE 220 5% 2W F (XB800AV)	
D904	8-719-210-21	DIODE 11EQS04 (XB800AV)		△ R402	1-216-453-11	METAL 270 1% 2W (DR7AV)	
D905	8-719-210-21	DIODE 11EQS04 (XB800AV)		△ R402	1-215-888-11	METAL OXIDE 220 5% 2W F (XB800AV)	
D906	8-719-991-33	DIODE 1SS133T-77 (XB800AV)		R406	1-249-437-11	CARBON 47K 5% 1/4W	
D907	8-719-200-82	DIODE 11ES2 (XB800AV)		R407	1-249-437-11	CARBON 47K 5% 1/4W	
D908	8-719-200-82	DIODE 11ES2 (XB800AV)		R408	1-249-440-11	CARBON 82K 5% 1/4W	
D909	8-719-200-82	DIODE 11ES2 (XB800AV)		R409	1-249-437-11	CARBON 47K 5% 1/4W	
D910	8-719-200-82	DIODE 11ES2 (XB800AV)		R410	1-249-389-11	CARBON 4.7 5% 1/4W F (XB800AV)	
D911	8-719-934-25	DIODE HZS33-1L		R411	1-249-389-11	CARBON 4.7 5% 1/4W F (XB800AV)	
D912	8-719-109-89	DIODE RD5.6ESB2		R412	1-249-389-11	CARBON 4.7 5% 1/4W F (XB800AV)	
D913	8-719-991-33	DIODE 1SS133T-77 (XB800AV)		R413	1-249-389-11	CARBON 4.7 5% 1/4W F (XB800AV)	
< IC >				R414	1-260-076-11	CARBON 10 5% 1/2W (XB800AV)	
IC801	8-749-016-11	IC STK411-230M (DR7AV)		R415	1-260-076-11	CARBON 10 5% 1/2W (XB800AV)	
IC801	8-749-016-10	IC STK411-220M (XB800AV)		R416	1-249-389-11	CARBON 4.7 5% 1/4W F (XB800AV)	
IC901	8-759-450-47	IC BA05T (XB800AV)					
< COIL >							
L401	1-420-872-00	COIL, AIR-CORE (XB800AV)					
L402	1-420-872-00	COIL, AIR-CORE (XB800AV)					
L403	1-420-872-00	COIL, AIR-CORE (XB800AV)					
L404	1-420-872-00	COIL, AIR-CORE (XB800AV)					

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R417	1-249-389-11	CARBON	4.7 5% 1/4W F (XB800AV)	R835	1-249-437-11	CARBON	47K 5% 1/4W
R420	1-249-389-11	CARBON	4.7 5% 1/4W F (XB800AV)	R836	1-249-417-11	CARBON	1K 5% 1/4W F
R421	1-249-389-11	CARBON	4.7 5% 1/4W F (XB800AV)	R837	1-249-435-11	CARBON	33K 5% 1/4W
R422	1-260-076-11	CARBON	10 5% 1/2W (XB800AV)	R838	1-249-435-11	CARBON	33K 5% 1/4W
R424	1-260-076-11	CARBON	10 5% 1/2W (XB800AV)	△ R839	1-215-877-11	METAL OXIDE	22K 5% 1W F
R425	1-249-437-11	CARBON	47K 5% 1/4W	R840	1-249-402-11	CARBON	56 5% 1/4W F
R429	1-249-437-11	CARBON	47K 5% 1/4W	△ R842	1-202-972-61	FUSIBLE	1 5% 1/4W F
R431	1-249-438-11	CARBON	56K 5% 1/4W	R851	1-249-417-11	CARBON	1K 5% 1/4W F
R432	1-249-437-11	CARBON	47K 5% 1/4W	R852	1-249-437-11	CARBON	47K 5% 1/4W
R434	1-247-863-91	CARBON	22K 5% 1/4W	R853	1-247-827-11	CARBON	680 5% 1/4W F
R435	1-249-425-11	CARBON	4.7K 5% 1/4W F	△ R855	1-215-891-11	METAL OXIDE	680 5% 2W F
R437	1-249-429-11	CARBON	10K 5% 1/4W	△ R857	1-212-881-11	FUSIBLE	100 5% 1/4W F
R439	1-249-425-11	CARBON	4.7K 5% 1/4W F	R859	1-260-076-11	CARBON	10 5% 1/2W
R440	1-247-863-91	CARBON	22K 5% 1/4W (DR7AV)	R860	1-249-437-11	CARBON	47K 5% 1/4W
R440	1-249-437-11	CARBON	47K 5% 1/4W (XB800AV)	R861	1-249-417-11	CARBON	1K 5% 1/4W F
R441	1-249-435-11	CARBON	33K 5% 1/4W	R862	1-249-431-11	CARBON	15K 5% 1/4W
R442	1-249-435-11	CARBON	33K 5% 1/4W	R863	1-249-441-11	CARBON	100K 5% 1/4W
R443	1-249-434-11	CARBON	27K 5% 1/4W	R864	1-249-425-11	CARBON	4.7K 5% 1/4W F (XB800AV)
R446	1-249-429-11	CARBON	10K 5% 1/4W	R865	1-247-863-91	CARBON	22K 5% 1/4W (XB800AV)
R447	1-249-437-11	CARBON	47K 5% 1/4W	R868	1-249-417-11	CARBON	1K 5% 1/4W F
R801	1-249-417-11	CARBON	1K 5% 1/4W F	R880	1-249-402-11	CARBON	56 5% 1/4W F
R802	1-249-437-11	CARBON	47K 5% 1/4W	△ R889	1-215-877-11	METAL OXIDE	22K 5% 1W F
R803	1-247-827-11	CARBON	680 5% 1/4W F	R901	1-249-429-11	CARBON	10K 5% 1/4W (XB800AV)
R804	1-247-759-11	CARBON	3.9K 5% 1/2W	△ R902	1-215-916-00	METAL	680 5% 3W (DR7AV)
△ R805	1-216-436-00	METAL OXIDE	3.9K 5% 1W	R903	1-249-429-11	CARBON	10K 5% 1/4W
△ R806	1-216-436-00	METAL OXIDE	3.9K 5% 1W	R904	1-249-417-11	CARBON	1K 5% 1/4W F
△ R807	1-212-881-11	FUSIBLE	100 5% 1/4W F	R905	1-249-429-11	CARBON	10K 5% 1/4W
R809	1-260-076-11	CARBON	10 5% 1/2W	R906	1-247-807-31	CARBON	100 5% 1/4W
R810	1-249-437-11	CARBON	47K 5% 1/4W	R907	1-247-807-31	CARBON	100 5% 1/4W
R811	1-249-417-11	CARBON	1K 5% 1/4W F	R908	1-247-807-31	CARBON	100 5% 1/4W (XB800AV)
R812	1-249-431-11	CARBON	15K 5% 1/4W	R909	1-247-791-31	CARBON	22 5% 1/4W (DR7AV)
R813	1-249-441-11	CARBON	100K 5% 1/4W	R911	1-249-429-11	CARBON	10K 5% 1/4W (XB800AV)
R814	1-249-421-11	CARBON	2.2K 5% 1/4W F	R912	1-249-429-11	CARBON	10K 5% 1/4W (XB800AV)
R815	1-247-863-91	CARBON	22K 5% 1/4W	< RELAY >			
R816	1-249-429-11	CARBON	10K 5% 1/4W	RY401	1-515-920-11	RELAY (24V)	
R817	1-249-421-11	CARBON	2.2K 5% 1/4W F	RY402	1-515-920-11	RELAY (24V)	
R818	1-249-417-11	CARBON	1K 5% 1/4W F	< TERMINAL >			
R819	1-249-439-11	CARBON	68K 5% 1/4W	TM401	1-537-842-11	TERMINAL BOARD (FRONT SPEAKER)	
△ R820	1-202-972-61	FUSIBLE	1 5% 1/4W F	TM402	1-537-510-11	TERMINAL BOARD (SPEAKER)(6P) (SURROUND SPEAKER)	
R821	1-249-435-11	CARBON	33K 5% 1/4W	*****			
R822	1-247-863-91	CARBON	22K 5% 1/4W				
R823	1-247-863-91	CARBON	22K 5% 1/4W				
R824	1-249-416-11	CARBON	820 5% 1/4W F (XB800AV)				
R824	1-249-418-11	CARBON	1.2K 5% 1/4W F (DR7AV)				
△ R825	1-215-891-11	METAL OXIDE	680 5% 2W F				
R827	1-249-441-11	CARBON	100K 5% 1/4W				
R828	1-247-903-00	CARBON	1M 5% 1/4W				
R831	1-249-441-11	CARBON	100K 5% 1/4W				
R832	1-249-441-11	CARBON	100K 5% 1/4W				
R833	1-249-441-11	CARBON	100K 5% 1/4W				

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Replace only with part number specified.

PANEL FL

Ref. No.	Part No.	Description	Remark
*	A-4417-490-A	PANEL FL BOARD, COMPLETE (XB800AV) *****	
*	A-4417-570-A	PANEL FL BOARD, COMPLETE (DR7AV) *****	
*	4-214-749-01	HOLDER (925), FL TUBE	
*	4-949-935-81	CUSHION (FL)	
		< CAPACITOR >	
C601	1-104-664-11	ELECT 47uF 20% 10V	
C602	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C604	1-126-960-11	ELECT 1uF 20% 50V	
C606	1-126-960-11	ELECT 1uF 20% 50V	
C608	1-104-665-11	ELECT 100uF 20% 10V	
C609	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C613	1-104-664-11	ELECT 47uF 20% 16V	
C616	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C617	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C621	1-126-964-11	ELECT 10uF 20% 50V	
C622	1-162-303-11	CERAMIC 0.0033uF 30% 16V	
C623	1-126-964-11	ELECT 10uF 20% 50V	
C624	1-104-664-11	ELECT 47uF 20% 16V	
C625	1-126-963-11	ELECT 4.7uF 20% 50V	
C626	1-126-964-11	ELECT 10uF 20% 50V	
C641	1-162-286-21	CERAMIC 220PF 10% 50V	
C642	1-162-286-21	CERAMIC 220PF 10% 50V	
C643	1-162-286-21	CERAMIC 220PF 10% 50V	
C644	1-162-286-21	CERAMIC 220PF 10% 50V	
C645	1-162-286-21	CERAMIC 220PF 10% 50V	
C646	1-162-286-21	CERAMIC 220PF 10% 50V	
C647	1-162-286-21	CERAMIC 220PF 10% 50V	
C648	1-162-286-21	CERAMIC 220PF 10% 50V	
C649	1-162-286-21	CERAMIC 220PF 10% 50V	
C650	1-162-286-21	CERAMIC 220PF 10% 50V	
C651	1-162-286-21	CERAMIC 220PF 10% 50V	
C652	1-162-286-21	CERAMIC 220PF 10% 50V	
C653	1-162-286-21	CERAMIC 220PF 10% 50V	
C654	1-162-286-21	CERAMIC 220PF 10% 50V	
C655	1-162-286-21	CERAMIC 220PF 10% 50V	
C656	1-162-286-21	CERAMIC 220PF 10% 50V	
		< CONNECTOR >	
CN601	1-784-776-11	CONNECTOR, FFC 15P	
CN602	1-784-737-11	CONNECTOR, FFC 15P	
		< DIODE >	
D601	8-719-071-44	DIODE SELS5223C-TP15 (STAND-BY)	
D602	8-719-058-04	DIODE SEL5223S-TP15 (DAILY)	
D603	8-719-058-04	DIODE SEL5223S-TP15 (REC)	
D604	8-719-058-04	DIODE SEL5223S-TP15 (SYNC EQ)	
D605	8-719-058-04	DIODE SEL5223S-TP15 (SYNC BASS)	
D606	8-719-058-03	DIODE SEL5423E-TP15 (TUNER/BAND)	
D607	8-719-058-04	DIODE SEL5223S-TP15 (ENT/NEX)	
D608	8-719-050-84	DIODE RB441Q-40T-77	

Ref. No.	Part No.	Description	Remark
		< FLUORESCENT INDICATOR >	
FL601	1-517-839-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC601	8-759-571-93	IC TMP88CS76F-6000 (DR7AV)	
IC601	8-759-589-13	IC TMP88CS76F-6004 (XB800AV)	
IC602	8-759-459-86	IC NJL64H400A	
IC603	8-759-083-77	IC BA3830F	
IC604	8-759-567-59	IC NJU3716L	
		< COIL >	
L601	1-410-517-11	INDUCTOR 47uH	
L602	1-410-517-11	INDUCTOR 47uH	
L603	1-410-517-11	INDUCTOR 47uH	
L604	1-410-509-11	INDUCTOR 10uH	
		< LINE FILTER >	
LF601	1-424-228-11	FILTER, NOISE	
		< TRANSISTOR >	
Q601	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q602	8-729-118-00	TRANSISTOR 2SB1116-L	
Q603	8-729-118-00	TRANSISTOR 2SB1116-L	
Q605	8-729-029-23	TRANSISTOR DTA114TSA-TP	
Q606	8-729-029-23	TRANSISTOR DTA114TSA-TP	
Q607	8-729-029-23	TRANSISTOR DTA114TSA-TP	
Q608	8-729-047-58	TRANSISTOR DTC114TLT2	
Q609	8-729-047-58	TRANSISTOR DTC114TLT2	
Q610	8-729-047-58	TRANSISTOR DTC114TLT2	
		< RESISTOR >	
R601	1-247-893-11	CARBON 390K 5% 1/4W	
R602	1-247-893-11	CARBON 390K 5% 1/4W	
R603	1-249-441-11	CARBON 100K 5% 1/4W	
R604	1-249-441-11	CARBON 100K 5% 1/4W	
R605	1-247-807-31	CARBON 100 5% 1/4W	
R608	1-249-435-11	CARBON 33K 5% 1/4W	
R609	1-247-895-91	CARBON 470K 5% 1/4W	
R610	1-249-401-11	CARBON 47 5% 1/4W	
R611	1-249-429-11	CARBON 10K 5% 1/4W	
R612	1-247-807-31	CARBON 100 5% 1/4W	
R613	1-247-807-31	CARBON 100 5% 1/4W	
R614	1-247-807-31	CARBON 100 5% 1/4W	
R615	1-249-429-11	CARBON 10K 5% 1/4W	
R616	1-249-429-11	CARBON 10K 5% 1/4W	
R617	1-249-429-11	CARBON 10K 5% 1/4W	
R618	1-249-429-11	CARBON 10K 5% 1/4W	
R619	1-249-429-11	CARBON 10K 5% 1/4W	
R620	1-249-429-11	CARBON 10K 5% 1/4W	
R621	1-249-429-11	CARBON 10K 5% 1/4W	
R622	1-249-429-11	CARBON 10K 5% 1/4W	
R623	1-247-903-00	CARBON 1M 5% 1/4W	
R624	1-247-807-31	CARBON 100 5% 1/4W	
R625	1-247-807-31	CARBON 100 5% 1/4W	
R626	1-249-429-11	CARBON 10K 5% 1/4W	
R627	1-247-807-31	CARBON 100 5% 1/4W	

PANEL FL

PANEL VR

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description				Remark
R628	1-249-429-11	CARBON	10K	5%	1/4W			< SWITCH >				
R629	1-247-807-31	CARBON	100	5%	1/4W							
R630	1-249-429-11	CARBON	10K	5%	1/4W	S601	1-554-303-21	SWITCH, TACTILE (POWER SAVE/DEMO (STANDBY))				
R631	1-249-410-11	CARBON	270	5%	1/4W	F						
R632	1-249-411-11	CARBON	330	5%	1/4W		S602	1-554-303-21	SWITCH, TACTILE (ECO)			
							S603	1-554-303-21	SWITCH, TACTILE (DISPLAY)			
R633	1-249-413-11	CARBON	470	5%	1/4W	F	S604	1-554-303-21	SWITCH, TACTILE (SPECTRUM ANALYZER)			
R634	1-249-414-11	CARBON	560	5%	1/4W	F	S605	1-554-303-21	SWITCH, TACTILE (PTY)(XB800AV)			
R635	1-249-415-11	CARBON	680	5%	1/4W	F						
R636	1-249-417-11	CARBON	1K	5%	1/4W	F	S606	1-554-303-21	SWITCH, TACTILE (TUNING/MODE)			
R637	1-249-418-11	CARBON	1.2K	5%	1/4W	F	S607	1-554-303-21	SWITCH, TACTILE (STEREO/MONO)			
							S608	1-554-303-21	SWITCH, TACTILE (ENTER/NEXT)			
R638	1-249-420-11	CARBON	1.8K	5%	1/4W	F	S609	1-554-303-21	SWITCH, TACTILE (TUNING/BAND)			
R639	1-249-422-11	CARBON	2.7K	5%	1/4W	F	S610	1-554-303-21	SWITCH, TACTILE (TUNING +)			
R640	1-247-843-11	CARBON	3.3K	5%	1/4W							
R641	1-249-425-11	CARBON	4.7K	5%	1/4W	F	S611	1-554-303-21	SWITCH, TACTILE (TUNING -)			
R642	1-249-427-11	CARBON	6.8K	5%	1/4W	F	S612	1-554-303-21	SWITCH, TACTILE (FUNCTION)			
							S613	1-554-303-21	SWITCH, TACTILE (TUNER MEMORY)			
R643	1-249-429-11	CARBON	10K	5%	1/4W		S614	1-554-303-21	SWITCH, TACTILE (SYNC EQ)			
R644	1-249-431-11	CARBON	15K	5%	1/4W		S615	1-554-303-21	SWITCH, TACTILE (SYNC BASS)			
R645	1-249-434-11	CARBON	27K	5%	1/4W							
R647	1-249-410-11	CARBON	270	5%	1/4W	F	S617	1-554-303-21	SWITCH, TACTILE (DAILY)			
R648	1-249-411-11	CARBON	330	5%	1/4W		S618	1-554-303-21	SWITCH, TACTILE (REC)			
							S619	1-554-303-21	SWITCH, TACTILE (SLEEP)			
R649	1-249-413-11	CARBON	470	5%	1/4W	F	S620	1-554-303-21	SWITCH, TACTILE (⏻/CLOCK SET)			
R650	1-249-414-11	CARBON	560	5%	1/4W	F						
R651	1-249-415-11	CARBON	680	5%	1/4W	F						
R652	1-249-437-11	CARBON	47K	5%	1/4W							
R653	1-249-417-11	CARBON	1K	5%	1/4W	F	X601	1-781-312-11	VIBRATOR, CERAMIC (12.5MHz)			
R654	1-249-437-11	CARBON	47K	5%	1/4W							
R655	1-249-417-11	CARBON	1K	5%	1/4W	F	*	A-4417-502-A	PANEL VR BOARD, COMPLETE			
R656	1-249-438-11	CARBON	56K	5%	1/4W							
R659	1-249-411-11	CARBON	330	5%	1/4W							
R660	1-249-411-11	CARBON	330	5%	1/4W							
R661	1-249-412-11	CARBON	390	5%	1/4W	F						
R662	1-249-407-11	CARBON	150	5%	1/4W	F	C610	1-162-306-11	CERAMIC	0.01uF	20%	16V
R663	1-247-804-11	CARBON	75	5%	1/4W		C611	1-162-306-11	CERAMIC	0.01uF	20%	16V
R664	1-249-407-11	CARBON	150	5%	1/4W	F	C612	1-164-159-21	CERAMIC	0.1uF		50V

PANEL VR							SUB TRANS							SURROUND AMP						
Ref. No.	Part No.	Description			Remark		Ref. No.	Part No.	Description			Remark								
R763	1-249-413-11	CARBON	470	5%	1/4W	F			< DIODE >											
R764	1-249-414-11	CARBON	560	5%	1/4W	F														
R765	1-249-415-11	CARBON	680	5%	1/4W	F	D901	8-719-991-33	DIODE	1SS133T-77										
									< RELAY >											
R766	1-249-417-11	CARBON	1K	5%	1/4W	F														
R767	1-249-418-11	CARBON	1.2K	5%	1/4W	F														
R768	1-249-420-11	CARBON	1.8K	5%	1/4W	F	△ RY901	1-755-276-11	RELAY, POWER											
R769	1-249-422-11	CARBON	2.7K	5%	1/4W	F			< TRANSFORMER >											
R770	1-247-843-11	CARBON	3.3K	5%	1/4W															
							△ T901	1-433-619-11	TRANSFORMER, POWER	*****										
R771	1-249-425-11	CARBON	4.7K	5%	1/4W	F	*	A-4417-501-A	SURROUND AMP BOARD, COMPLETE			*****								
R772	1-249-427-11	CARBON	6.8K	5%	1/4W	F			< CAPACITOR >											
R773	1-249-429-11	CARBON	10K	5%	1/4W		C101	1-128-582-11	ELECT	10uF	20%	100V								
R774	1-249-431-11	CARBON	15K	5%	1/4W		C102	1-162-286-21	CERAMIC	220PF	10%	50V								
R775	1-249-434-11	CARBON	27K	5%	1/4W		C103	1-162-282-31	CERAMIC	100PF	10%	50V								
							C104	1-126-967-11	ELECT	47uF	20%	50V								
R776	1-249-438-11	CARBON	56K	5%	1/4W		C105	1-136-165-00	FILM	0.1uF	5%	50V								
R777	1-247-818-91	CARBON	300	5%	1/4W															
R778	1-249-407-11	CARBON	150	5%	1/4W	F	C106	1-136-165-00	FILM	0.1uF	5%	50V								
R779	1-249-403-11	CARBON	68	5%	1/4W	F	C107	1-128-560-11	ELECT	22uF	20%	100V								
R782	1-249-407-11	CARBON	150	5%	1/4W	F	C108	1-136-495-11	FILM	0.068uF	5%	50V								
							C109	1-136-495-11	FILM	0.068uF	5%	50V								
R783	1-249-407-11	CARBON	150	5%	1/4W	F	C111	1-128-562-11	ELECT	47uF	20%	100V								
R784	1-249-407-11	CARBON	150	5%	1/4W	F														
R785	1-249-407-11	CARBON	150	5%	1/4W	F	C113	1-161-494-00	CERAMIC	0.022uF		25V								
R786	1-249-407-11	CARBON	150	5%	1/4W	F	C114	1-162-294-31	CERAMIC	0.001uF	10%	50V								
R787	1-249-407-11	CARBON	150	5%	1/4W	F	C151	1-128-582-11	ELECT	10uF	20%	100V								
							C152	1-162-286-21	CERAMIC	220PF	10%	50V								
R789	1-249-407-11	CARBON	150	5%	1/4W	F	C153	1-162-282-31	CERAMIC	100PF	10%	50V								
R790	1-249-407-11	CARBON	150	5%	1/4W	F														
R791	1-249-407-11	CARBON	150	5%	1/4W	F	C154	1-126-967-11	ELECT	47uF	20%	50V								
R792	1-249-407-11	CARBON	150	5%	1/4W	F	C157	1-128-560-11	ELECT	22uF	20%	100V								
R793	1-249-407-11	CARBON	150	5%	1/4W	F	C158	1-136-495-11	FILM	0.068uF	5%	50V								
							C159	1-136-495-11	FILM	0.068uF	5%	50V								
R794	1-249-417-11	CARBON	1K	5%	1/4W	F	< CONNECTOR >													
R795	1-249-417-11	CARBON	1K	5%	1/4W	F	CN101	1-691-771-11	PLUG (MICRO CONNECTOR) 9P											
		< SWITCH >					CN102	1-691-766-11	PLUG (MICRO CONNECTOR) 4P											
S625	1-771-215-11	SWITCH, TACTILE (GEQ ⇐ ⇑ ⇓ ⇒)					< DIODE >													
S626	1-554-303-21	SWITCH, TACTILE (GROOVE)					D101	8-719-991-33	DIODE	1SS133T-77										
S627	1-554-303-21	SWITCH, TACTILE (SUPER WOOFER)					D151	8-719-991-33	DIODE	1SS133T-77										
S628	1-554-303-21	SWITCH, TACTILE (MODE)					< IC >													
S629	1-554-303-21	SWITCH, TACTILE (PRO LOGIC)					IC101	8-749-015-42	IC	STK407-040E										
							< TRANSISTOR >													
S632	1-554-303-21	SWITCH, TACTILE (KARAOKE PON/MPX)					Q101	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA										
S633	1-554-303-21	SWITCH, TACTILE (ENTER)					Q103	8-729-140-82	TRANSISTOR	2SA988-PAFAEA										
S634	1-554-303-21	SWITCH, TACTILE (GEQ CONTROL)					Q104	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA										
S635	1-554-303-21	SWITCH, TACTILE (DSP)					Q131	8-729-029-86	TRANSISTOR	DTC124ESA										
S636	1-554-303-21	SWITCH, TACTILE (EFFECT)					Q132	8-729-620-05	TRANSISTOR	2SC2603-EF										
S637	1-554-303-21	SWITCH, TACTILE (P.FILE MEMORY)					Q151	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA										
S701	1-473-392-11	ENCODER, ROTARY (VOLUME)					< RESISTOR >													
*****							R101	1-249-417-11	CARBON	1K	5%	1/4W	F							
*	1-672-432-11	SUB TRANS BOARD (XB800AV)																		

		< CAPACITOR >																		
△ C901	1-113-925-11	CERAMIC	0.01uF	20%	250V															
		< CONNECTOR >																		
* CN901	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P																		
CN902	1-564-321-00	PIN, CONNECTOR 2P																		

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

TRANS

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

HCD-DR7AV/XB800AV

TRANS

Ref. No.	Part No.	Description	Remark
< CONNECTOR >			
* CN901	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P (DR7AV)	
* CN952	1-564-526-11	PLUG, CONNECTOR 11P (XB800AV)	
* CN952	1-564-528-11	PLUG, CONNECTOR 13P (DR7AV)	
< DIODE >			
D832	8-719-510-68	DIODE D5SBA20F01	
< FUSE >			
△ F951	1-532-504-31	FUSE (T4AL/250V)(DR7AV:SP,EA)	
△ F961	1-532-506-31	FUSE (T6.3AL/250V)	
△ F962	1-532-506-31	FUSE (T6.3AL/250V)	
△ F963	1-532-505-31	FUSE (T5AL/250V)	
△ F964	1-532-505-31	FUSE (T5AL/250V)	
< FUSE HOLDER >			
FH951	1-533-233-21	HOLDER, FUSE (DR7AV:SP,EA)	
FH952	1-533-233-21	HOLDER, FUSE (DR7AV:SP,EA)	
FH961	1-533-233-21	HOLDER, FUSE	
FH962	1-533-233-21	HOLDER, FUSE	
FH963	1-533-233-21	HOLDER, FUSE	
FH964	1-533-233-21	HOLDER, FUSE	
FH965	1-533-233-21	HOLDER, FUSE	
FH966	1-533-233-21	HOLDER, FUSE	
FH967	1-533-233-21	HOLDER, FUSE	
FH968	1-533-233-21	HOLDER, FUSE	
< RESISTOR >			
△ R951	1-219-122-91	FUSIBLE 0.33 5% 1/4W F	
△ R952	1-219-122-91	FUSIBLE 0.33 5% 1/4W F	
△ R953	1-219-119-81	FUSIBLE 0.1 5% 1/4W F	
< TRANSFORMER >			
△ T951	1-433-608-11	TRANSFORMER, POWER (XB800AV)	
△ T951	1-433-609-11	TRANSFORMER, POWER (DR7AV)	
< SWITCH >			
△ VS901	1-771-291-11	SWITCH, POWER (DR7AV:SP,EA)	

MISCELLANEOUS			

1	1-769-977-11	WIRE (FLAT TYPE) (13 CORE)(DR7AV)	
1	1-773-009-11	WIRE (FLAT TYPE) (15 CORE)(XB800AV)	
5	1-233-545-11	TUNER (FM/AM)(DR7AV)	
5	1-693-443-11	TUNER (FM/AM)(XB800AV)	
61	1-773-002-11	WIRE (FLAT TYPE) (15 CORE)(80mm)	
62	1-773-034-11	WIRE (FLAT TYPE) (15 CORE)(420mm)	
152	1-569-008-21	ADAPTOR, CONVERSION 2P (EA,SP)	
152	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK,EE,CIS)	
156	1-790-287-11	WIRE (FLAT TYPE) (19 CORE)	
160	1-773-006-11	WIRE (FLAT TYPE) (15 CORE)	
161	1-773-056-11	WIRE (FLAT TYPE) (17 CORE)	
507	1-452-925-21	MAGNET ASSY	
△ 601	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-NP	
602	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
△ CNP901	1-558-943-41	CORD, POWER (TH)	

Ref. No.	Part No.	Description	Remark
△ CNP901	1-575-651-21	CORD, POWER (AEP,UK,EE,CIS,SP,EA)	
△ CNP901	1-696-845-11	CORD, POWER (AUS)	
FL601	1-517-839-11	INDICATOR TUBE, FLUORESCENT	
HP101	A-2056-681-B	DECK (A) ASSY, HEAD (230AWR2)	
HP101	A-2056-683-B	DECK (A) ASSY, HEAD (230PWR2)	
HRPE101	A-2056-682-B	DECK (B) ASSY, HEAD (230AWR2)	
HRPE101	A-2056-684-B	DECK (B) ASSY, HEAD (230PWR2)	
M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M201	A-4660-977-A	MOTOR ASSY (TABLE)	
M901	1-698-792-11	FAN, DC (DR7AV)	
△ T901	1-433-619-11	TRANSFORMER, POWER (XB800AV)	
△ T951	1-433-608-11	TRANSFORMER, POWER (XB800AV)	
△ T951	1-433-609-11	TRANSFORMER, POWER (DR7AV)	

HARDWARE LIST			

#1	7-685-871-01	SCREW +BVTT 3X6 (S)	
#2	7-685-872-09	SCREW +BVTT 3X8 (S)	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#4	7-685-534-14	SCREW +BTP 2.6X8 TYPE2 N-S	
#5	7-685-553-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#6	7-685-105-19	TPG +P 2X8 TYPE2 NON-SLIT	
#7	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#8	7-685-881-09	SCREW +BVTT 4X8 (S)	
#9	7-685-853-04	SCREW +BVTT 2X6 (S)	
#10	7-685-850-04	SCREW +BVTT 2X3 (S)	
#11	7-685-851-04	SCREW +BVTT 2X4 (S)	
#12	7-628-254-15	SCREW +PS 2.6X6	
#13	7-628-254-50	SCREW +PS 2.6X16	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

SS-CN991

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
PX Model



This set is the speaker system in
MHC-991AV/G99AV.

SPECIFICATIONS

Speaker system	Full range speaker system Magnetically shielded type
Speaker units	10 cm , cone type
Enclosure type	Bass reflex
Rated impedance	8 ohms
Dimensions	Approx. 280 × 110 × 175 mm (11 ¹ / ₈ × 4 ³ / ₈ × 7 in)(w/h/d)
Mass	Approx. 1.5 kg (3 lb 5oz)

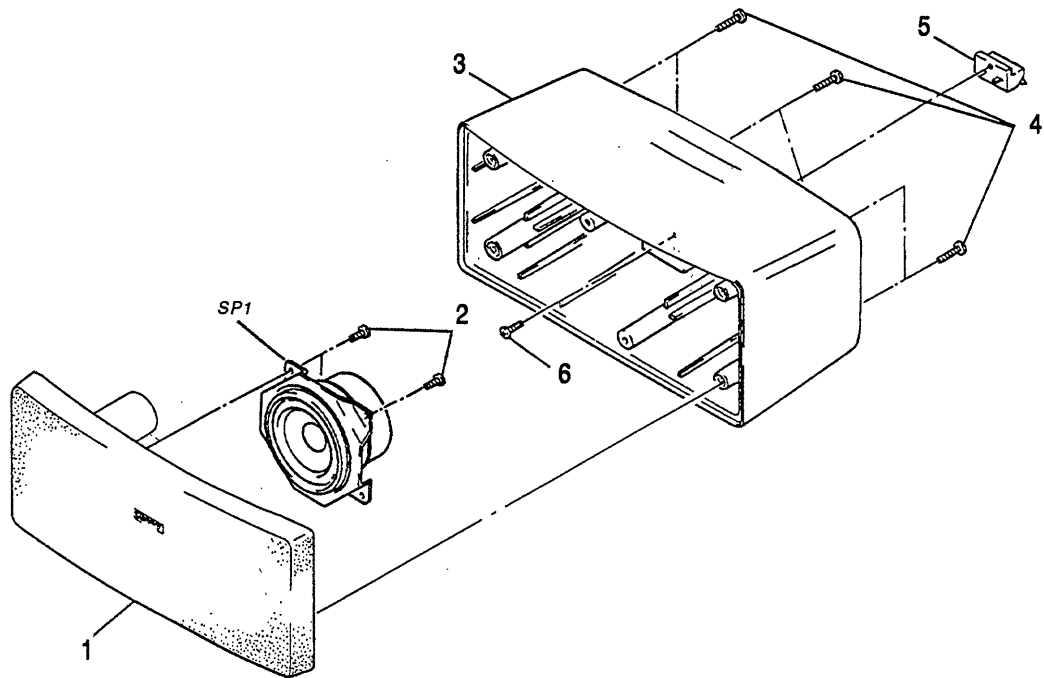
Design and specifications are subject to change without notice.

SPEAKER SYSTEM
SONY®

EXPLODED VIEW AND PARTS LIST

NOTE :

- Items marked “ * ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.



Ref. No.	Part No.	Description	Remark
1	X-4947-190-1	FRAME ASSY, FRONT	
2	7-685-660-11	SCREW +BVTP 4×10 TYPE 2	
3	4-982-147-01	CABINET	
4	7-685-663-79	SCREW +BVTP 4×16 TYPE 2	
5	1-537-775-11	TERMINAL BOARD	
6	7-685-661-79	SCREW +BVTP 4×12 TYPE 2	
SP1	1-505-312-11	SPEAKER (8cm)	

ACCESSORIES & PACKING MATERIALS			

	1-769-433-21	CORD, SPEAKER	
	4-972-322-01	FOOT (Y)	
*	4-982-299-01	CUSHION (UPPER)	
*	4-982-300-01	CUSHION (LOWER)	

SS-SR99/SR99D

SERVICE MANUAL



US Model
Canadian Model

SS-SR99

AEP Model

UK Model

E Model

SS-SR99D

Australian Model

SS-SR99/SR99D

SS-SR99/SR99D is the speaker system in LBT-DR7AV/DR8AV/VR90AV/W900AV/XB800AV.

Photo : SS-SR99

SPECIFICATIONS

Speaker system	Full range, bass-reflex type
Speaker units	10 cm dia., cone type
Rated impedance (SR99)	16 ohms
(SR99D)	8 ohms
Dimensions (w/h/d)	Approx. 175 x 130 x 185 mm (7 x 5 ¹ / ₈ x 7 ³ / ₈ in)
Mass	Approx. 1.3 kg (2 lb 14 oz.) net per speaker

Design and specification subject to change without notice.

SPEAKER SYSTEM



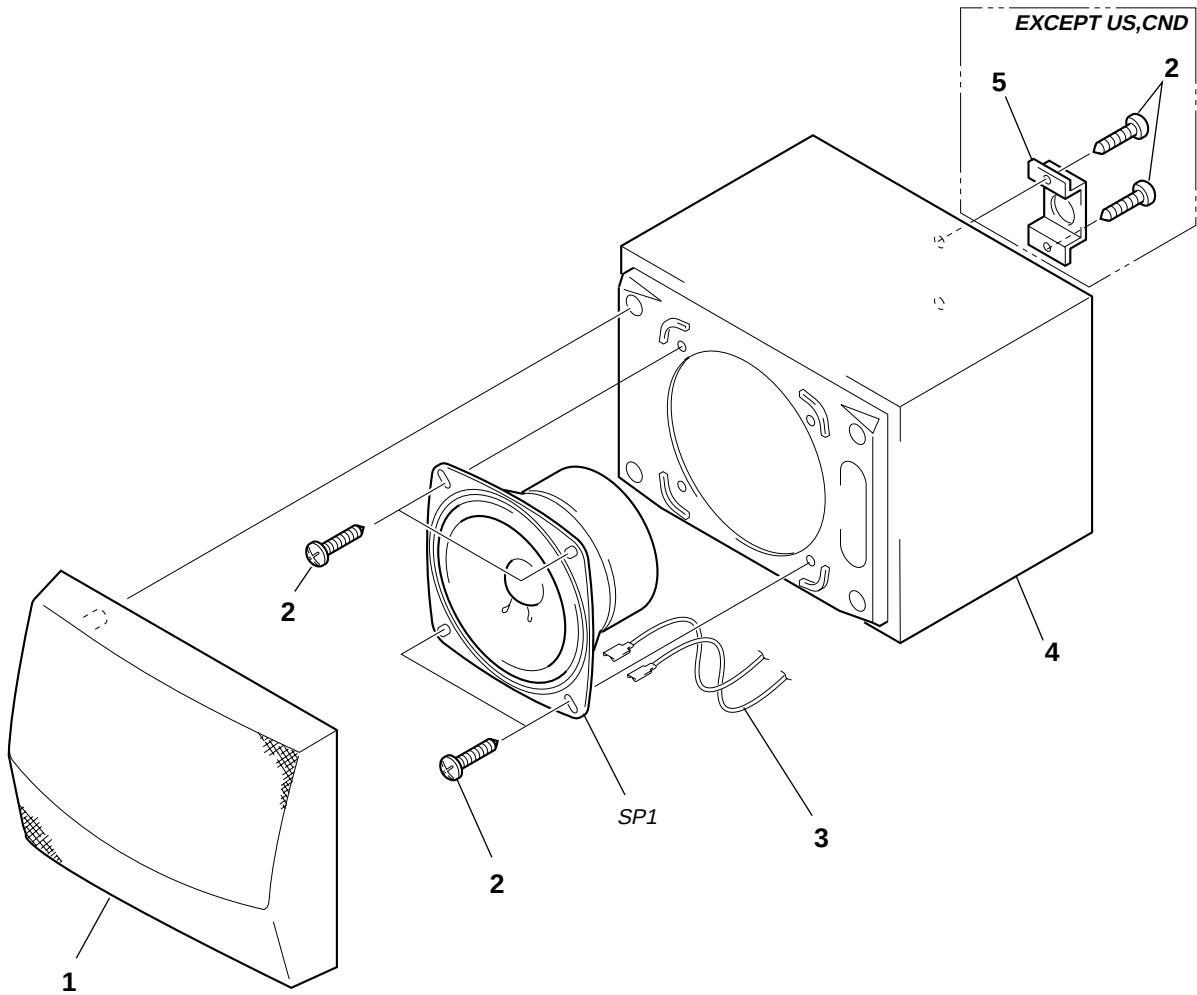
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EXPLODED VIEW AND PARTS LIST

NOTE:

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- Abbreviation
CND : Canadian model



Ref. No.	Part No.	Description	Remark
1	X-4951-360-1	FRAME ASSY, GRILLE	
2	4-874-614-11	SCREW +BVTP 3.5x14	
3	1-775-758-11	LEAD (WITH CONNECTOR)	
* 4	A-4411-573-A	CABINET ASSY, SPEAKER	(Including Terminal board)
* 5	4-983-074-01	BRACKET, HOOK (Except US,CND)	

Ref. No.	Part No.	Description	Remark
SP1	1-505-341-11	SPEAKER (10cm) (SR99)	
SP1	1-529-346-11	SPEAKER (10cm) (SR99D)	

SS-DR4/DR7AV/XB500

SERVICE MANUAL

AEP Model

UK Model

SS-XB500

E Model

Australian Model

SS-DR4/DR7AV



Photo : SS-DR4 (R-ch)

SS-DR4/XB500 is the speaker system
in LBT-DR4/XB500.
SS-DR7AV is the speaker system in
LBT-DR7AV.

SPECIFICATIONS

Speaker system (SS-DR4, DR7AV)	3-way,3-unit, bass-reflex type, magnetically shielded type
(SS-XB500)	3-way, 3-unit, bass-reflex type
Speaker units	
Super Woofer:	17 cm dia., cone type
Woofer:	17 cm dia., cone type
Tweeter:	6 cm dia., cone type
Rated impedance:	
(SS-DR4)	6 ohms
(SS-XB500)	8 ohms
Dimensions (w/h/d):	Approx. 255 x 505x 360 mm (10 ¹ / ₈ x 20 x 14 ¹ / ₄ in)
Mass	Approx. 9 kg (20 lb) net per speaker

Design and specification are subject to change without notice.

SPEAKER SYSTEM



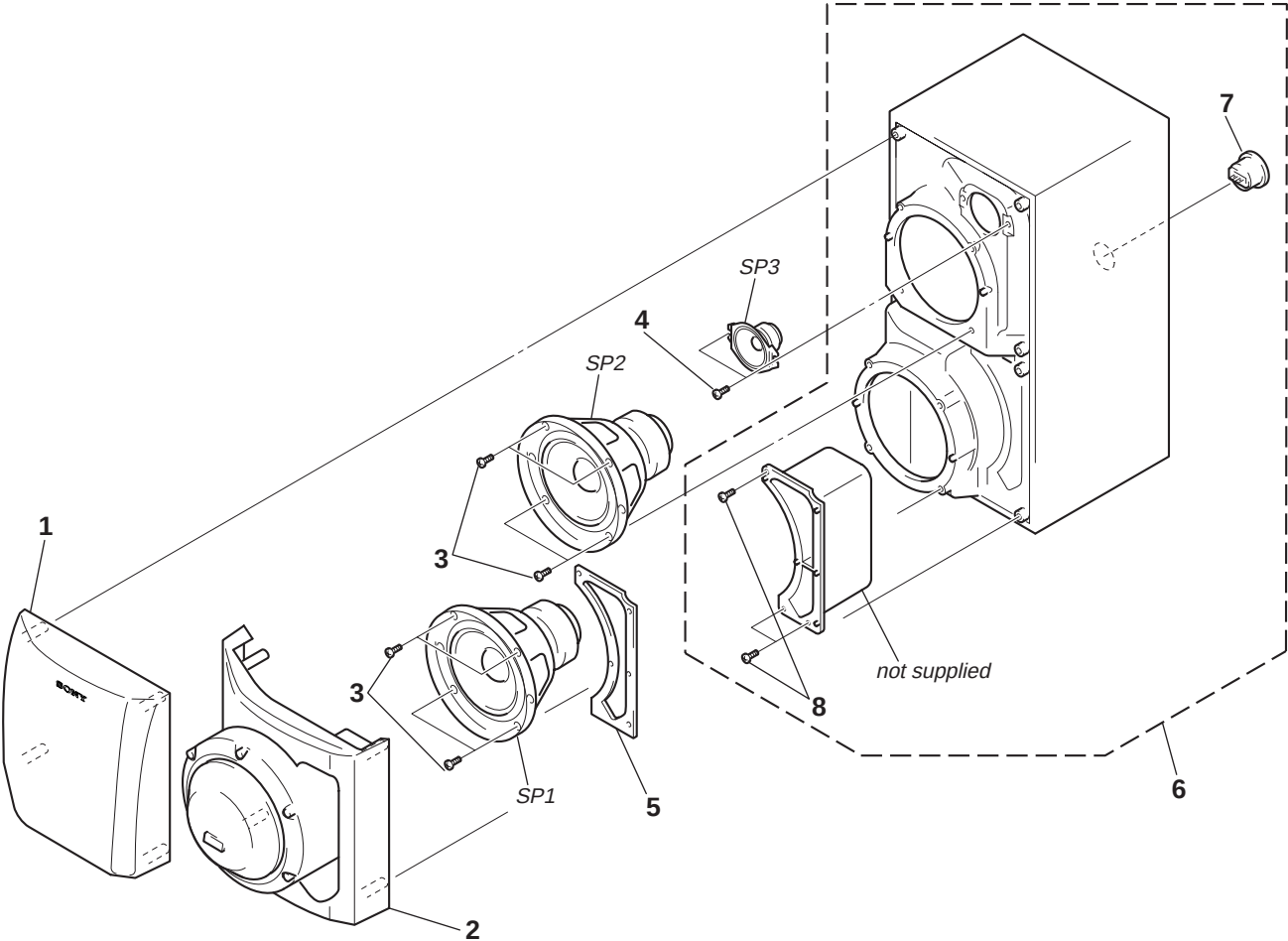
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EXPLODED VIEW AND PARTS LIST

NOTE:

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L-ch



Ref. No.	Part No.	Description	Remark
1	X-4950-844-1	FRAME (L) ASSY, GRILLE	
1	X-4950-845-1	FRAME (R) ASSY, GRILLE	
2	X-4950-842-1	PANEL (L) ASSY, FRONT	
2	X-4950-843-1	PANEL (R) ASSY, FRONT	
3	7-865-162-21	SCREW +P 4x14 TYPE2 SLIT	
4	7-865-659-79	SCREW +BVTP 4x8 TYPE2 N-S	
5	4-215-758-01	PACKING, DUCT	
* 6	A-4411-365-A	CABINET (L) ASSY, SPEAKER	
* 6	A-4411-366-A	CABINET (R) ASSY, SPEAKER	
7	1-537-332-11	TERMINAL BOARD	
8	7-685-662-79	SCREW +BVTP 4x14 TYPE2 N-S	

Ref. No.	Part No.	Description	Remark
SP1	1-529-237-11	SPEAKER (16cm) (XB500)	
SP1	1-529-277-11	SPEAKER (17cm) (DR4/DR7AV)	
SP2	1-529-236-11	SPEAKER (16cm) (XB500)	
SP2	1-529-278-11	SPEAKER (17cm) (DR4/DR7AV)	
SP3	1-529-238-11	SPEAKER (6cm) (XB500)	
SP3	1-529-332-11	SPEAKER (6cm) (DR4/DR7AV)	

ACCESSORIES & PACKING MATERIALS			

	1-775-512-21	CORD, SPEAKER CONNECTION	
	4-210-254-01	CUSHION (FOOT)	